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# THE NEW GENERATION ROTATORS

## THEY'RE NOT YOUR FATHER'S HAM "M"

Rotator Comparison Chart

Model/ Specs	The New Generation									Old Generation	
	Create RCS	Create RCSA	Create RCSB	Emoto 105TSX	Emoto 747SRX	Emoto 1105MSX	Emoto 1200FOX	Emoto 1300MSAX	Emoto 1800FSX	Texas Ham/V	Texas TZX
Rotator	43	116	160	37	50	57	143	215	287	67	83
Torque Ft/Lb											
GDR Kg/Mb	N/A	N/A	N/A	100	400	700	1000	1800	3000	N/A	N/A
Ant Inertia											
Brk/Static Torque Ft/Lb	506	1085	1450	215	502	717	1290	1792	2150	417	750
Wind Load In Tower (ft)											
	10	25	25	11	22	27	27	33	36	15	20
Mast mount	4	5	7	5	9	12	12	15	16	7.5	10
Rotating speed 360°	60-150 sec variable	60-150 sec variable	60-150 sec variable	55	35	65	40	77	80	50	60
Rev. Delay	None	2 sec	3 sec							None	None
Preset	Opt 3	Opt 3	yes	no	no	Opt	yes	yes	yes	no	no
Computer	no	no	no	no	yes	yes	yes	yes	yes	no	no
Power 120V 50Hz	80VA	140VA	200VA	70VA	70VA	70VA	90VA	120VA	150VA	26V AC	26V AC
Mast Dia.	2-2.5 in	2-2.5 in	2-2.5 in	2-2.4 in	1.6-2.4 in	1.6-2.4 in	1.6-2.4 in	2.4-3.1 in	3.5-5.5 in	2 in	2 in
Control wire	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	8 cond	8 cond
Vertical max load lb	880	1540	1540	660	1100	880	1760	1760	2200	400	800
Rotor wtr	13	17	20	7.5	9	11	11	13	39.5	24	28
Brake type	worm drive	worm drive	worm drive	disk	friction	friction	friction	friction	friction	wedge	wedge
Self center mast clamp	yes	yes	yes	Adj	Adj	Adj	Adj	Adj	Adj	no	no
Special notes	3-6	3-6	3-6	6	1-6	6	2-6	6	6	4-7	4-7
Pricing (\$)	\$269.00	449.95	799.00	209.95	399.00	589.00	679.00	1099.00	3272.00	369.95	439.95
With Preset	\$379.00	\$528.95				\$663.00					

1. Turns 747binder 470° in 35 seconds  
2. Variable speed 40 sec max  
3. EEB prices as of 5/91 subj to change  
4. Wind Load in Sq. Feet

5. EEB prices as of 5/91 subj to change  
6. 120/220 taped transformer

7. 120V normal 220V special order  
8. Variable speed w/SCR constant rotational torque at any speed

### THE NEW GENERATION

An entire generation of amateurs have grown up knowing only one rotator manufacturer. Those old favorites are still popular. But, now a new generation of rotators are out to set high standards with innovative features such as: large machined steel gears, cast and machined aluminum cases, solid state controllers for smooth start/stop, preset, computer control and circular position indicators.

The bottom line is... strong, long term reliability, ease of operation and cost effectiveness. When you erect an antenna system the last thing you need is rotor problems!

### CREATIVE DESIGN ROTATORS

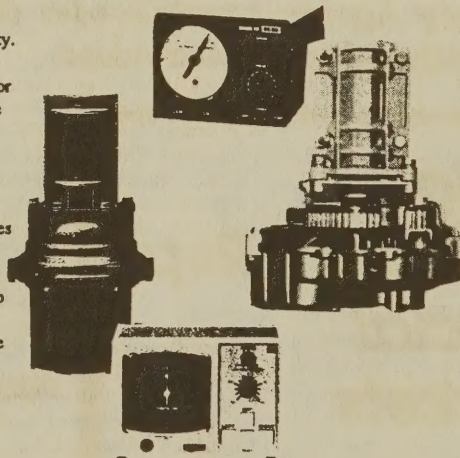
CREATE is serious about long term reliability. The CREATE RCS series rotators were designed with the serious DX'er in mind. Three models for medium, large and ultra large antenna arrays are available.

### ROTOR FEATURES OF RCS SERIES

- \* Large strong reduction gear system provides long term reliability during years of rugged operation.
- \* Worm drive gearing provides powerful braking force and low backlash to keep your antenna in position during severe weather conditions.
- \* Cast and machined aluminum case provide the strength required for long lasting service.
- \* Mast clamp guides for ease of mast installation.

### CONTROLLER FEATURES OF RCS SERIES

- \* Speed control using silicon control rectifiers allows slow speed without reduction in rotation torque. Rotating spec is constant 60 to 200 seconds per 360 degrees.
- \* Reverse delay control (RDC). Delays reverse command to rotor until antenna is at rest. Prevents damage to rotor antenna and tower system.
- \* Circular dial indicator, for quick accurate reading of antenna direction. Great circle overlay available for USA (west-cent-east).
- \* Preset (on 3 models) a must for quick setting of antenna direction. Just turn the knob to the new heading, the rest is automatic. Won't waste your time holding down the brake lever and wait.



### EMOTO ROTATORS

More than 60% of all Japan amateurs use EMOTO rotators. Many unique innovations and international patents have made EMOTO number one.

EMOTO has a fool proof method to calculate which of their rotators will satisfy your needs. This GD<sup>2</sup> formula considers your antenna (s) weight, boom and longest element length. The EMOTO sheet is in metric so one must convert weight 2.2lbs= 1kg and length in meters 3.3ft.=. meter. Calculate your GD<sup>2</sup> than compare EMOTO GD<sup>2</sup> spec above.

$$GD^2 = W \times \frac{L^2 + B^2}{12}$$

Where: W: weight of antenna (kg)  
L: length of longest element (m)  
B: length of boom(m)

### GD<sup>2</sup> EXAMPLES: Kgm<sup>2</sup>

TH7DX (437), TH3JR (63), 205BA (675), DISC7-3 (1300), A3S (61), A4S (173), KLM KT34XA (378), 3 ELE TRIBAND (150), 6 ELE TRIBAND (400), 20M 5 ELE (750), 15M 6 ELE (650), 40M 2 ELE SHORT BOOM (240), 40M 2 ELE FULL BOOM (800), 80M 2 ELE (1500), STACK ARRAYS 10M 5 ELE (60), 15M 5 ELE (200), 20M 5 ELE (750), 60+200+750=1010

EMOTO also has a robust AZ-EL rotator that has computer I/O ports. For those working satellites or EME moon bounce the EV700D5X should do the job, as rotating torque is more than double the YAESU G5400B AZ-EL.



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Corresponding Secretary	Ethel Smith, K4LMB (703) 536-8469

### AUTO-CALL MAGAZINE STAFF

Editor	Ethel Smith, K4LMB (703) 536-8469
Circulation Manager	John Swafford, W4HU (703) 536-9537

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Tri-County Amateur Radio Club  
T-MARC, The Middle Atlantic FM & Repeater Council  
Vienna Wireless Society  
Voice of America Amateur Radio Club  
Washington Adventist Amateur Radio Association  
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## EDITORIAL

### You Can't Take it With You

You can't take your ham equipment with you when you go to that big ham shack in the sky and it is prudent to think about what you would want to happen to those treasures when the time comes, and how your family is going to cope with disposing of them.

The Foundation's Widow's Assistance program tries to provide help when it is needed, but the greatest "assistance" should begin with you. Keep a reasonably up-to-date inventory and a realistic evaluation of your equipment. Keep track of appropriate manuals and instruction books. If you want your transceiver to go to some special friend or family member, put that in your instructions. And make sure your family and/or friends know where to find the records. Consider the option of donating some or all of your equipment to a club or a school. The family can probably realize as much from a tax deduction as they will from a sale - and a charitable donation will take a lot less time and effort and accounting.

If the family wants to sell the equipment, the Foundation will be glad to help. We will advertise "Estate Sales" of Amateur equipment in the Auto-Call without any charge or fee. The Foundation is willing and eager to help in any way possible, but it cannot assume the total burden for every ham family in the area. Your preparation is the first and most important step. You then should have a friend or some local club prepared to assist when that inevitable day arrives. Preferably, this should involve people who are already known to your family; people they will trust and who can protect their interests from the very beginning. These people should help dismantle the gear, arrange for the disposition or advertising and handling of the resulting phone calls. There is a multitude of things that must be taken care of - and right at a time when the whole process is most painful to the family.

The Foundation **DOES NOT** approach the family of deceased hams. Often the family is not ready to think about the problem, must less talk about it to strangers. Friends and clubs should make the first approach. They, then, can contact the Foundation for further assistance.

Does your club have an Assistance Program?

Ethel - K4LMB

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## Coming Events

- Sep 5-6      Shelby Hamfest, Shelby, North Carolina  
Sep 13      F.A.R. FEST, Gaithersburg, Maryland (Page 23)  
Sep 19-20    Virginia Beach Hamfest, Virginia Beach, Virginia (Page 27)  
Sept ?      ARRL Computer Networking Conference, Northern New Jersey
- Oct 9-11    AMSAT Space Symposium (Page 22)  
Oct 10-11   DXPO-92 Holiday Inn, College Park, MD  
Oct 11      Columbia ARA Hamfest, Howard County Fairgrounds  
Oct 18      Cumberland County Hamfest, Carlisle, Pennsylvania  
Oct 17-18   ARRL Simulated Emergency Test
- Nov 1      Mason-Dixon Hamfest, Westminster, Maryland
- Dec 6      HolidayFest '92, Largo, Maryland (Page 48)  
Dec 11      Southern Maryland ARC Annual Christmas Dinner/Meeting,  
Camp Springs, MD Elks lodge.

### 1993

- Apr 23-25   Dayton Hamvention  
Jul 17-18   Southeastern Division Convention, Atlanta, Georgia  
Aug 13-15   ARRL National Convention, Huntsville, Alabama

### 1994

- Apr 29,30 & May 1   Dayton Hamvention  
June 10-12   ARRL National Convention, Dallas, TX

### 1995

- Apr 28-30   Dayton Hamvention

*Thanks to Bob Milligan - KI4MB and the SERA Repeater Journal for providing much of the above information.*

*Please keep Auto-Call advised of coming Hamfests and other important Coming Events. We are anxious to provide our readers with timely information and help to avoid possible conflicts when scheduling activities.*

*We can use all the help we can get!*



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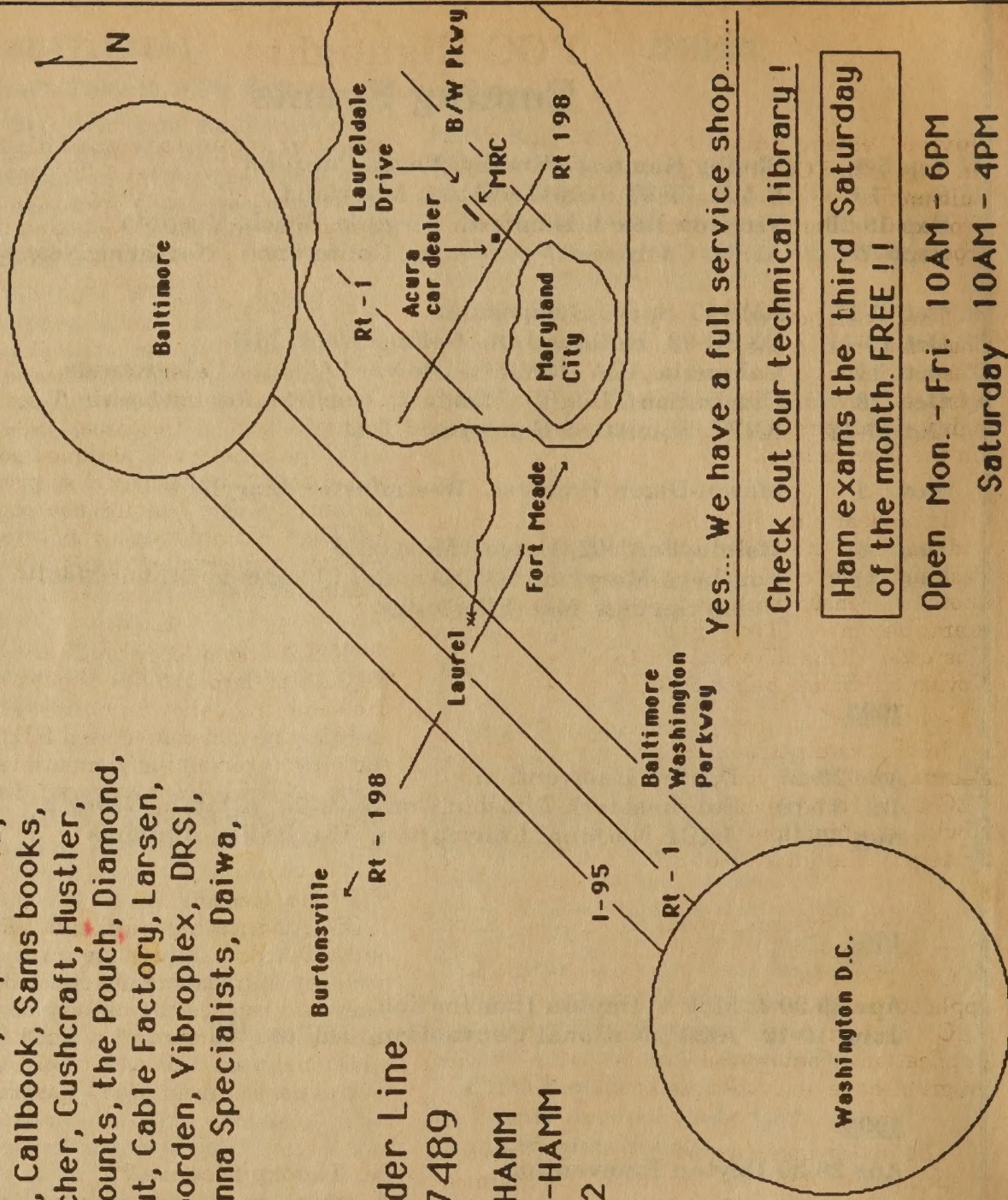
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# FCC Highlights

by Jack Kelleher - W4ZC

## Novice Testing added to VEC System.

On July 13th FCC adopted a Notice of Proposed Rulemaking which looks toward consolidating two existing ham radio operator license testing programs.

The existence of the Codeless Technician Class has had a major impact on the Novice Class. Seventy five percent of all first time licensees now are Technician Class. In 1990, eighty eight percent of all newcomers entered via the Novice level.

It is clear that ham beginners are learning and passing the code after they achieve the Technician level. Although they do not get another license, Techs who pass a telegraphy exam become "Tech Plus" for Technician plus code. This allows them to operate on the Novice HF bands below 30 MHz.

In separate petitions filed with the FCC in February of this year, the ARRL and W5YI VEC both recommended to the FCC that all Novice examinations be included in the VEC System in the interest of greater efficiency.

The VEC System screens all Amateur Radio Form 610 applications before submission to the FCC. The FCC keeps track of all defective applications received. The error rate in the VEC System was less than one percent. Applications submitted under the Novice program have an error rate of 9.4 percent.

The better performance of the VEC System is primarily due to improved communications between the FCC, VEC and volunteer examiners. No such channel of communication exists in the Novice testing program. The VEC system is also perceived as a more credible testing system because all volunteer examiners must be approved by the VEC and examination records are centrally maintained for FCC inspection if warranted. In the VEC System, pass and fail records are closely monitored; there are no statistics available on Novice examination failures. (excerpted from W5YI Report, 8/1/92)

## Amateur requests tests of his HDTV system

On July 17th Amateur TV experimenter Leo Zucker-K2LZ, of White Plains NY filed comments with the FCC asking that they order testing of his patented high definition television system. He also formed a company, Future Images Today (FIT).

While the Chairman of the FCC's Advisory Committee on Advanced Television Systems acknowledged in December 1989 that Zucker's HDTV proposal was "...unique and intriguing" he added that "...no testing slots are available" and "because of the unique approach taken....the Advisory Committee....was not capable of evaluating the system even if a testing slot later became available "

K2LZ's technology uses two separate 6-MHz NTSC standard 525-line signals transmitted on the same frequency (emphasis added) to arrive at 1050-line non-compressed HDTV while at the same time remaining compatible with existing home (NTSC) TV receivers. (excerpted from W5YI Reports 8/1/92)

## VHF HT Recall.

ICOM America has recalled all P2AT 144 MHz and 440 MHz handy-talkie transceivers due to a problem with leaking internal lithium batteries. They will replace the battery at no charge and extend the warranty on modified radios an additional year. Call (206) 454-7619 for recall instructions. (from W5YI Report 8/1/92).

## No Theory License ??

A packet message is circulating concerning a petition filed proposing a no-theory amateur license. John Johnston, FCC Personal Radio Branch Chief, confirmed the existence of this proposal during the VEC Conference. His view was "no code, no theory; no privileges". You can anticipate that this petition will be dismissed without a comment period. (Thanks W5YI Report, 8/1/92)

(Continued)



## FCC Highlights - Continued

### 220 - 222 MHz and Business Radio.

What even happened to the 220 - 220 MHz band that was reallocated from The Amateur Radio Service to narrow-band business radio? Actually, nothing. More than a year later no licenses have been issued and no equipment has been authorizing for marketing. This does not mean that there is no interest. More than 60,000 applicants for licenses are waiting for the FCC lottery that will decide who will get a license.

The Commission will award licenses based on a computerized random selection procedure, rather than choosing capsules from a raffle drum or by blown ping pong balls. The FCC has taken steps designed to prevent spectrum speculators from participating. Narrow-band business licensees must demonstrate ties to the communities in which they are to be licensed; are prohibited from selling their systems for 10 years; and must construct systems within 5 years.

### Amateur Helps Identify Jammer.

San Francisco area Amateurs instrumental in identifying one of their own as a jammer have come forward following the issuance of a \$15,000 fine by the FCC. According to the FCC, From October 1990 to July 1991 their San Francisco office was contacted by at least 15 public service agencies and others, including Amateurs, complaining of harmful interference. The jammer was using cross-band techniques to re-transmit Amateur and commercial channels.

Although the jammer was identified (as James Winsted Jr. - KK6SM, of Redwood City) and confronted in July 1991, the FCC did not reveal his identity until issuing the Notice of Apparent Liability in May 1992.

"Part of the success in finding this individual," said Phil Kane, supervisory engineer in the FCC's San Francisco office, "was the cooperation of the local Amateur community, whose channels also were being jammed".

Shortly after the alleged jammer was identified S. Marti-Volkoff, engineer-in-charge at the FCC's San Francisco office, wrote the following to Chuck Vaughn, AA6G: 'We would like to take this opportunity to extend our sincere appreciation for your recent assistance in locating and identifying the source of harmful interference to various police agencies in the

San Francisco Bay Area. This was a difficult case because of the subject's sporadic behavior pattern and operation on numerous frequencies.

"The Amateur Radio community has always demonstrated a willingness to assist the Commission in achieving compliance with the extant rules and regulations. Your actions in the instant case are an excellent example of this cooperative attitude". (Thanks ARRL letter 7/27/92)

### Spectrum Requirements for the Amateur Radio Service.

In last month's FCC Highlights column, brief mention was made, under "HR-73," of an NTIA (National Telecommunications and Information Administration) Notice of Inquiry which includes questions on requirements of the Amateur Radio Service. We now have the complete text, which indicates that the inquiry is far-reaching and, contrary to what some may infer from the source of the inquiry, is not limited to requirements for future Government use of the spectrum. In fact, we understand that ARRL will submit comments pertaining to the Amateur Radio Service.

The NTIA NOI requests "broadly-based technical and marketplace information on spectrum requirements for different radio services and classes of users over the next ten years." Section 6 of the NOI addresses the Amateur Radio Service and says: "Amateur radio operators provide many non-commercial public services via radiocommunications, including emergency communications during natural disasters. Many of the technological advances in radiocommunications can be traced back to initial experimentation carried out in the amateur service. Currently, the amateur service performs an important and useful function as an adaptor of complicated and expensive technologies, often producing versions of communications systems more suitable for practical use. ...."

"NTIA seeks comments on the future spectrum requirements for the amateur radio service. What factors could either increase or reduce the spectrum requirements of the service? Is the current spectrum used by amateurs adequate? What new technologies may increase the ability of the amateur service to share with other radio services in certain frequency bands."



## FCC Highlights - Continued

It is hoped that Amateurs and Amateur organizations will comment on this NOI. Criticism of the Amateur Service is increasing due in part to misconceptions, even in our own ranks, about what we are, what we do and how we do it. (See, for example, "The Fox is at our Door", by Richard Hall - W1QF, in Westlink Report for July 15, 1992, which compares Amateur packet radio to worldwide information networks such as INTERNET, and concludes "Why deal with amateur (dinosaur technology) when you could be racing between geostationary satellites with 100 kilobaud or better?"

In summary, we feel that this is Inquiry is important. The deadline for comments is October 1, 1992, and for reply comments December 1.

### Propagation Predictions.

The following article which appears in Westlink Report for July 31 is of general interest to those of us who operate at HF.

"SUNSPOT CYCLE VS. GEOMAGNETIC CYCLE.,  
by David Rosenthal, N6TST.

"The eleven-year sunspot cycle might be on its way down, but amateurs interested in the sun's effects on radio propagation can still look forward to some excitement. This is what scientists and solar forecasters predicted at a recent conference in Ottawa about the sun and its effects on the earth.

"It was called the Solar-Terrestrial Predictions Workshop and it brought together representatives of not only the solar physics community but also people from the network of 11 solar-terrestrial warning centers around the world that keep constant watch on the sun's effects on the earth. One object of the

conference was to compare notes and come to a consensus about what we can expect from the sun over the next several years.

"One of the more interesting pieces of information that came out of the meeting was a general agreement that, although the number of sunspots is on the decline, that the geomagnetic activity cycle still has some surprises in store.

"Like the eleven-year sunspot cycle, there's another eleven year cycle. This one is the sun's effects on the earth's magnetic field -- the geomagnetic field. But this cycle lags the sunspot cycle by about a year and, in nine of the last ten sunspot cycles, the geomagnetic activity cycle has shown a double peak.

"The first geomagnetic peak comes about a year after the sunspot number peaks; it's already happened for this cycle though the jury is still out on exactly when. But the second peak comes sometime during the declining years of the sunspot cycle and this is what the solar experts say we should expect.

"What this means to DXers is more geomagnetic storms that can make already fair-to-poor propagation even worse by wiping out polar paths. But other conditions could get better -- at least temporarily -- like enhancements along transequatorial paths as storms begin, and 2 and 6 meter auroral skip openings as the storms progress.

"The solar forecasters say geomagnetic activity should continue to rise for the next few years with the 1994-1995 time frame most likely for the biggest events. But for now and the foreseeable future, any time is a good time to expect a geomagnetic storm."



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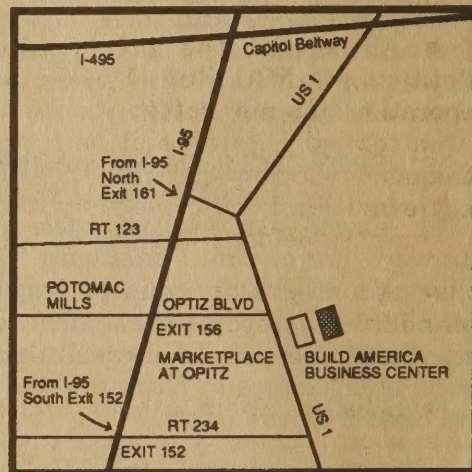
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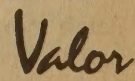
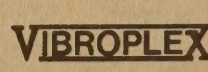
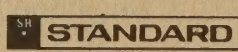
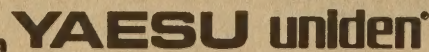
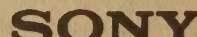
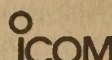
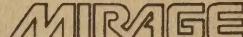
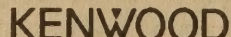
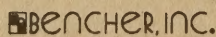
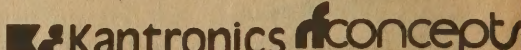
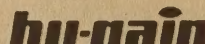
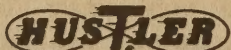
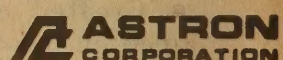
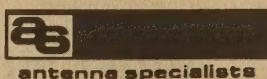
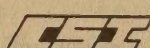
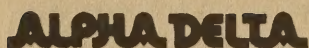
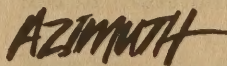
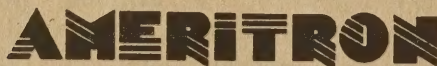
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# American Radio Relay League Report

By John Swafford -- W4HU

*This ARRL Report provides a brief summary of information published in the ARRL LETTER and other reports. The LETTER provides timely news of interest to active Radio Amateurs. Any League member may subscribe to the ARRL LETTER.*

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## **Changing Name of Organization Deferred.**

The ARRL Board of Directors will not entertain changing the name of the organization until next year at the earliest, it was decided at the board's second meeting of 1992 held July 17 and 18. Further consideration was postponed "so that the full rationale for the proposal can be shared with the membership."

In other actions at its meeting in Rocky Hill, Connecticut, the board:

- Authorized the preparation of a draft Petition for FCC Rule Making to permit the operation of a new category of Amateur station, "unattended digital station," on RTTY/data frequencies below 30 MHz. The draft is to be reviewed and approved by the Executive Committee before filing.

- Adopted a national alert DTMF tone standard in response to a recommendation of the Public Service Advisory Committee.

- Selected Abdul Jabbar Marafi - 9K2DZ as the recipient of the ARRL International Humanitarian Award for 1991 for his work as the "Last Voice from Kuwait" (as documented in May 1991 QST).

- Directed ARRL staff to more effectively promote family membership to licensed spouses and children of ARRL members.

- Created a Field Organization Volunteer of the Year Award, to be administered at the Division level.

- Created an ARRL Industry Advisory Council, in response to a Long Range Planning Committee recommendation.

- Encouraged Section Managers to appoint assistants to promote youth activities in their sections.

- Authorized a new "official family" style call sign badge for Life Members.

- Approved \$37,000 to conduct a survey to address membership recruitment issues, as directed by Minute 80 of the 1992 Annual Meeting.

- Awarded jointly the Technical Excellence Award for 1991 to Roy Lewallen - W7EL for his article, "MININEC: The Other Edge of the Sword," (February 1991 QST); to Rick Campbell - KK7B for his article "A Single Board, No-Tune 902 MHz Transverter," (July 1991 QST; and to Bruce Hale - KB1MW for his article "An Introduction to Digital signal Processing," (July 1991 QST).

- Directed the Administration and Finance Committee to study the feasibility of raising the age for reduced youth membership dues from 17 to 21.

- Directed the chief financial officer to study establishing an ARRL Job Bank to help League members find employment.

- President Wilson, in his first report as president, praised the Headquarters staff for its leadership, dedication and competence.

**James Heil - KB5AWM, Wins First McGan Award for Public Relations.** At its July meeting the ARRL board of directors approved the selection of James Heil - KB5AWM of Houston, Texas, as the first winner of the Philip J. McGan Silver Antenna Award. Heil was nominated by Sandra Hawley - N5OLU on the basis of his work in four different areas: as public information officer for the Clear Lake (Texas) Amateur Radio Club, his work for the Amateur Radio News Service, his work with the Houston Amateur Radio Helpline and his general work in publicizing Amateur Radio. The committee selected him after a careful evaluation of his accomplishments in all areas.

A full story on the first Silver Antenna Awards winner and nominees will appear in September QST.

(Continued)



## ARRL REPORT - Continued

**SAREX Mission Overcomes Antenna Problems.** U.S. Space Shuttle flight STS-50 just concluded as the longest ever while SAREX astronauts Commander Richard Richards-KB5SIW, and Mission Specialist Ellen Baker-KB5SIX, overcame antenna problems to make all eight scheduled contacts with schools.

Because of the shuttle's "tail to the ground" attitude on this mission, the Amateur 2-meter slot antenna was mounted on one of the spacecraft's overhead windows, instead of in the usual spot on a forward window. This was expected to provide better coverage. But, according to astronaut Ron Parise-WA4SIR the first to use this antenna (on STS-35 in 1990), the slot antenna is very susceptible to surrounding objects, and the new position was a problem.

The antenna has a built-in SWR indicator and adjustment capacitor, and Richards and Baker soon found that it wasn't resonating where it was supposed to. On the 89th orbit Ellen Baker modified the antenna according to suggestions from the ground -- using aluminum tape to increase the antenna's contact with the body of the shuttle. This helped but coverage was still limited.

The astronauts made SWR readings, reported the best frequencies to the SAREX ground team in Houston (led by Lew McFadden-W5DID), and from then on all the SAREX operations moved to 144.450, simplex.

In addition to the school contacts, Richards and Baker made a number of random contacts. As usual, those are logged on audio tape and no totals are yet available.

Richards and Baker passed their license exams at an ARRL/VEC test session in Houston during the last SAREX flight, STS-45, in April.

**Letters Support Return of Special Call Requests.** The League has once again gone on record supporting the development of a system for granting special Amateur call sign requests, this time by endorsing a proposal made by two influential members of the U.S. House of Representatives.

On June 12, 1992, Rep. Ralph M. Hall of the 4th District, Texas, who is a member of the House Telecommunications and Finance

Subcommittee and also a co-sponsor of House Bill HR-73, wrote to the FCC, "on behalf of several Amateur Radio operators who are interested in the establishment of an FCC system for allotting distinctive call signs. Also signing the letter in support was Rep. Edward J. Markey of Massachusetts, chairman of the subcommittee.

"We are supportive of a special call sign program," the two congressmen said, "provided that it could generate sufficient fees to fully fund additional Commission staff and equipment requirements." Shortly thereafter ARRL President George Wilson III-W4OYI wrote to FCC Chairman Alfred Sikes, reiterating the League's position.

"While the ARRL opposes the imposition of Amateur license fees that would discourage individuals from obtaining an Amateur license or from upgrading their skills, we do not oppose the funding of a call assignment program in the manner described by Messrs. Markey and Hall," Wilson wrote.

"We would be pleased to work with FCC staff in developing a fair, workable system for assigning specific, unassigned Amateur Radio call signs," the letter concluded.

**Croatia, Slovenia Apply to IARU; Albanian Society is Newest Member.** National Amateur Radio organizations representing Slovenia and Croatia have been proposed for membership in the International Amateur Radio Union. IARU member societies have until November 30 to cast their votes on proposals to admit the Association of Radio Amateurs of Slovenia, abbreviated ZRS, and the Croatian Radio-amateur Association, abbreviated HRS.

Amateurs in Croatia, a recent new member of the International Telecommunication Union, have recently begun using the prefix 9A, which has been assigned to Croatia by the ITU.

In other IARU news, the Albanian Amateur membership by vote of the member societies. Also, the IARU membership of the Estonian Amateur Radio Union, ERAU, has been reactivated. ERAU was admitted to the IARU in 1938 but was inactive during the period when Estonian amateurs were represented by Radio Sport Federation of the USSR.



# Public Service Report

Hank Black - N3ESR

(301) 340-8595

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*Material for the PUBLIC SERVICE REPORT can be left to N3ESR on the WA3ZNW packet bulletin board on 145.090 MHz, called by telephone, or mailed electronically by modem on arrangements, or mailed to Public Service Report, 105 North Van Buren St., Rockville, MD 20850-1860.*

*Deadline for receipt of material is the third of the month.*

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## MISSING INFORMATION - N3JGL

In last month's column, for some reason, information regarding where to send expressions of sympathy regarding Dave Drysdale - N3JGL, was lost during the preparation of the camera-ready copy. We regret any inconvenience this may have caused. It is a little bit late to repeat it now.

## HAMS PROVIDE COMMUNICATIONS FOR TWILIGHT RUNFEST

Twenty-seven hams had a picnic on July 18, 1992 at the Montgomery County Government Executive Office Building Cafeteria. The reason for this festive occasion was to provide for staffing assignments of radio operator positions and give out last minute instructions to the Montgomery Radio Amateur Club members and friends providing communications for the Seventh Annual Rotary Twilight 8K Runfest.

The annual 8K Twilight Runfest and wheelchair race which includes a 1-mile fun run is made possible through the efforts of the Rockville Rotary Club, and the Rockville Recreation and Parks Department. The Montgomery County Road Runners Club with communications support from the Montgomery County Amateur Radio Club conducts the annual event. The 8K course runs through the West End and Woodley Gardens communities of Rockville and around the Montgomery College Rockville campus.

Radio operators are assigned to shadow the race director, city recreation director, city police liaison officer, and key medical personnel. Locations covered include each half-mile and mile marker, medical central and three medical setups along the course, and three positions in the final stretch of the course. In addition, two National Guard and the Wheaton Rescue Squad ambulances were manned with amateur radio operators and their gear.

Logistical positions had communications through the city's radio system which was monitored and accessed by hams at the communications center for the race (back porch of one ham's home QTH). In all, amateur, cellular phone, local government, and National Guard communications nets were used to accomplish command and control of the race event.

Amateur radio operators who participated were: WA1IVD, N3ESR & YL  
(never say ex-YL to your wife! -otherwise you never go to hamfests or public service events),  
KA3CTR, NG3K, W3WON, NK3I, N3LRS, AA3AC, KA3USB,  
N3KHU, K3USO, WA3YJA, W3QF, N3LDY, N3JFW, N3LGF,  
N3LFZ, KA3FCY, N3JLN, N3LCA, NI2Q, N3LOL, AD3F,  
N3LDI, N3CLL, N3MTI, N3HGX.

(Continued)



# Public Service Report - Continued

## NATIONAL CAPITAL ARES COUNCIL

The National Capital Amateur Radio Emergency Service (ARES) Council (NCAC) is an organization of ARES officials in the metropolitan Washington, D.C. area. The Council strives to enhance the development of amateur radio emergency and public service communications in the region. The Council provides a forum for sharing resources and information among participating ARES jurisdictions.

The Council conducts a weekly net at 9 p.m. on the 146.91 MHz repeater near Tysons Corner, Virginia (alternate -the 146.79 MHz repeater in Fairfax City). All are welcome. In addition, bi-monthly meetings are held at various locations among Virginia, Maryland and the District of Columbia, usually on a Saturday morning. Please check with the Sunday night net on dates, locations and times. Everyone is welcome join in the meetings.

For more information, contact your local Emergency Coordinator. If you are not certain who is the Emergency Coordinator for your area, please contact Hank Black, N3ESR, Chairman of the National Capital ARES Council at (301) 340-8595 or via his home packet BBS at WA3ZNW on 145.09 MHz.

## SKYWARN ACTIVITIES

The National Weather Service (NWS) activated SKYWARN numerous times in July in response to severe summer thunderstorms. Thanks is given to all Amateur Radio operators who participated in making the nets successful. Much valuable and timely severe weather information was relayed to the NWS by trained SKYWARN severe storm spotters via Amateur Radio. Nature provided ample opportunities to report hail, high winds, flooding, rain in excess of 1" per hour and downed trees and power lines. Many times the information from the Amateur Radio net was integrated into severe weather watches and warnings within ten minutes of the Amateur Radio report. Credit for the observations was given to "trained SKYWARN spotters." These reports were immediately broadcast by the NWS on the weather wire and on NOAA weather radio to warn the public. The entire net is thanked for many jobs well done!

We still need Amateur Radio operators who are available to serve as net controllers between the hours of 2 and 5 p.m. when many Amateurs are still at work. Anyone interested is invited to contact Dan - KC4OCG at 703-281-2358 for training.

SKYWARN packet took a number of incremental steps forward during July. Thanks is given to Craig - N4FSC for trouble shooting the PK88 and resetting the deviation on the packet system. His work appears to have been successful and the packet system has not "jammed" since the repair.

SKYWARN packet is on 145.730. The call sign of the mailbox is KC4OCG. Direct connects may be made by connecting to KC4OCG-1. The following nodes are on the "realtime" message network: RARES (Rockingham County, VA); 4KNODE; 4KMAIL; FMNET (Luray, VA); FRNET (Front Royal, VA); and FFX (Fairfax Hospital, Falls Church, VA). Plans are in place to add a node in Davidsonville, MD to bring southern Maryland into the System.

It is appreciated that the Amateur community gives SKYWARN/public service traffic priority during severe weather and during ARES/RACES operations. The system is open for the use of all amateurs at all other times. Please give the network a try for "realtime" packet direct connects and please feel free to monitor the packet frequency when SKYWARN has been activated.

(Continued)



## Public Service Report - Continued

During July many severe weather watches and warnings were uploaded on packet from ASCII files provided by the NWS. The messages are addressed to ALL@SKYWRN and were placed on local BBSs. Please give us your comments on whether posting this information is useful.

SKYWARN T-shirts are available for \$10. Please contract Dan or Barbara McNaught for information. Three forecasters have passed their novice written tests and a number of forecasters are getting ready to take the test. Congratulations to all!

SKYWARN received some excellent publicity in the August 6 issue of the Northern Virginia Sun Gazette newspapers. Better than half a page was devoted to a description of the program and the "500 ham radio operators who volunteer to be the weather center's eyes and ears."

- Submitted by Dan Gropper - KC4OCG



## PUBLIC SERVICE CALENDAR

- |          |  |
|----------|--|
| Sept 5-7 | Children's Festival<br>Wolf Trap Farm, Virginia<br>Contact Ed Ober, KC4EFJ (703) 591-0422                                  |
| Sept 13  | 100 (70/30) MS Bikeathon<br>Fairfax County<br>Contact Ed Ober, KC4EFJ (703) 591-0422 or<br>Bob Lewis N4SCK, (703) 830-3495 |
| Oct 11   | MS Bikeathon<br>Montgomery County<br>Contact Hank Black, N3ESR (301) 340-8595  |
| Oct 17   | A.R.R.L. ARES S.E.T. (Dates may vary)<br>Contact your local Emergency Coordinator  |



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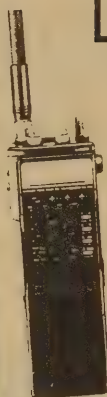
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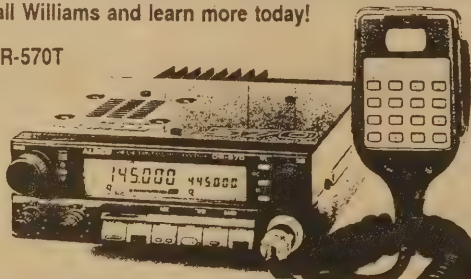
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DJ-162T

DR-119T

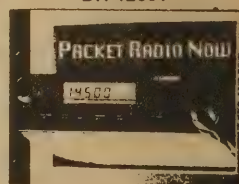


**ALINCO DR-119T** - New 2M mobile, with ergonomic design. 50W power, subtone enc/dec included. 14 memories, scan, up/down tun on mike. Great for mobile 2M operation. Spring Loaded mobile bracket.

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# DX DX DX

**John Kanode, N4MM**

**DXCC** As most are aware the DXCC Desk at ARRL HQ has a considerable backlog in processing applications and endorsements. It is due to several events. First the process of converting over from the old paper record system of the last 47 years to the new computer system has been a bigger task than anyone had anticipated. One of the DXCC employees was out ill for several months and many more cards were received this year than before. The DXCC program is one of the most popular award programs in the Amateur Radio world. You might say it is a victim of its own success. The backlog is not going to go away overnight, however significant reduction of the backlog should begin to show up soon. One has to see this operation at ARRL HQ to appreciate what is and has to be done. The new DXCC Specialist is now on board and this will help speed up the process. The new DXCC Field Representative Program has been a great success and has helped to keep a bad situation from being worse. There are plans to expand the role of the DXCC Field Reps and this will be announced soon.

I am sure most have seen the photo of the new #1 Honor Roll Plaque on page 11 of August 1992 QST. With the old system, if one wanted a #1 Honor Roll Plaque for each of the three honor rolls, one had to buy three plaques. This new approach will allow one to change the small brass plate on the bottom of the plaque as he or she makes the #1 position on the different honor rolls. Only one plaque is needed. However if for any reason someone wants three separate plaques, they will be accommodated. The new plaque is a more modern design and is made of better material than the old ones. Thanks go to Sue Fagan and Chuck Hutchinson at ARRL HQ for work on this project.

## UPCOMING DX EVENTS

September 12	W9DXCC Convention
September 19-20	Roanoke Division ARRL Convention Va. Beach
October 10-11	West Texas DX Bash
October 10-11	DXPO-92, College Park, MD.

## DX CONTESTS FOR SEPTEMBER

September 5-6	All Asian DX Contest	Phone
September 5-6	LZ DX Contest	CW
September 12-13	European DX Contest	Phone
September 26-27	CQ WW RTTY DX Contest	

## UPCOMING DXPEDITIONS

Niue Island ZK2VJ	August 26- Sept. 2
Somalia T35UN	Sept.- Dec. 1992
Tanzania 5H3NU	August 1- Sept. 4
Zanzibar Is. 5H1ITY	August 1- Sept. 4

## TIDBITS

S21A is now on the air officially. Most operations so far have been on nets, 14256 KHz and 21295 KHz. QSL via W4FRU

XU/DJ4OF is active from Kampuchea for 9 months while working with local police.

1B1NCC has been operating from Northern Cyprus in the past few weeks. ARRL has received letters from the Cyprus Amateur Radio Society indicating that this station is illegal. Another bit of info on this is that GØETX, GØITX and G7IYV are operating from the Turkish Republic of Northern Cyprus and indicate that they have full written authority to operate there. They claim that Northern Cyprus does not come under the jurisdiction of the 5B government. To date, no application for separate DXCC country status has been received by the DXAC.

The DXAC has scheduled a vote on Croatia, Slovenia, Bosnia- Hercegovina and Macedonia for the week of August 24. Also a vote will be taken on the issue of should Abu-Ail be deleted due to the fact that the governing body has changed.

(Continued on page 18)



# Training Classes

**Robert Armstrong, WA4SQL**

44 South French Street, Alexandria, VA 22304

Phone (703) 751-2294

**Novice and Technician Training Classes, Herndon, VA. Starting September 12.** Sponsored by the Herndon Repeater Group. Classes are free but will be limited to 35 people. For information Contact Mike Weber - WB8RDN at (703) 450-2304 between 7:00 and 9:00 p.m.

**Novice and Technician Training Classes, Temple Hills, MD. Starting September 14.** Sponsored by the Southern Maryland Amateur Radio Club. Classes will be held on Mondays from 7:00 - 9:00 p.m. Classes are free. For information call Ray Simpson - WI3A (301) 894-0606 or Vic Curtis - WA3YUV (301) 888-1388.

**Entry level training course leading to the Novice/Technician (code)/Technician (no-code) Amateur Radio Licenses. Alexandria, VA. Starting September 14.** Monday nights from 7:30 to 9:30 p.m. and will run for about 14 weeks. Sponsored by the Mount Vernon Amateur Radio Club and the Alexandria Radio Club. There is no charge for the course, however, students will be expected to provide study materials costing about \$30. For information and location, contact John Forrest - WZ4A at (703) 971-3905

**Novice Training Program, Vienna, VA. Starting September 15** and ending on December 1st with a Novice exam session. Sponsored by Vienna Wireless Society. Classes will start at 7:30 p.m. and end around 9:00 p.m. at the Vienna Community Center facilities on Park Street, Vienna, VA. Materials can be obtained through the instructor. If enough interest is demonstrated, classes for **General, Advanced and Extra Classes** will also be offered. These theory only classes will be scheduled for three Saturday mornings, 9:00 a.m. till 1:00 p.m. Tapes and PC programs are available for high code speed practice. For additional information call Paul Wilkins - AB4CY at (703) 560-2779.

**Novice/Technician Training Classes, Gaithersburg, Maryland, Starting September 22** at Gaithersburg High School. Sponsored by Montgomery Amateur Radio Club. Classes will be held from 7:30 - 9:30 p.m. on Tuesdays and Thursdays and followed by VE session on November 12. Classes are free. For information call Jane (301) 762-6262 or Ron (301) 540-1505

**Novice Training Classes, Towson, MD.** Sponsored by BRATS. Classes are being held on an On-going basis every Tuesday evening at the Towson Armory. Classes are free; Materials (which you can keep) consist of a book and tape and cost \$19.90. For registration or information, contact Joe Chidester - W3SHZ (410) 602-0353

**Novice Training Classes, N.W. Washington, DC.** Sponsored by MADRAS. For more information contact Larry Zeicheck - N3GKZ (301) 984-6112.

*Please keep Auto-Call advised of Training Classes*

## DX Column - Continued

More DXCC Field Representatives have been appointed for the Roanoke Division.

N4VG	VA,	KC4DY	VA,	AA4VK	NC,	K4CEB	NC,
K4CIA	NC,	K4NYV	NC,	N4AYO	NC,	N4DAZ	NC,
N4ZC	NC,	WJ4T	NC,	WA4FFW	NC,	W4WMQ	SC,
K4MQG	SC,	N4JJ	SC,	N4TJ	SC,	W4UNP	SC

There will be ARRL HQ staff and DXCC Field Reps at the Roanoke Division ARRL Convention to check QSLs for all DXCC awards, endorsements, WAS, 5BWAS and VUCC.



**FOUNDATION FOR AMATEUR RADIO**  
**Volunteer Examiner Cooperative**

Nancy Draheim - NK4U  
3513 Old Post Road, Fairfax, VA 22030  
(703) 691-0078

**SCHEDULE OF EXAMINATIONS**

**NOTICE:** If you presently have a Technician class license which was acquired prior to March 21 1987, keep a copy of this license available when you decide to upgrade to General class. It will be your responsibility to prove you are grandfathered for Element 3B (General Theory).

- Aug 26 Maryland Mobileers ARC (Glen Burnie, MD) (Laurel VEC) Pre-registration  
Contact: Jerry Gavin, NU3D (410) 761-1423
- Aug 29 Herndon Repeater Group (Herndon, VA) (ARRL VEC) Pre-registration required  
Contact: Mike Weber, WB8RDN (703) 450-2304
- Sep 6 D.C.M. ARC (Landover, MD) (ARRL VEC) Walk-in  
Contact Freddie Battle (202) 546-9348
- Sep 12 Anne Arundel Radio Club (Davidsonville, MD) (LARC VEC) Walk-in  
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083
- Mount Vernon ARC (Alexandria, VA) (Laurel VEC) Walk-in  
Contact: Frank Mackey, N4GUS (703) 455-1510
- Richmond Amateur Radio Club, (Richmond, VA) (ARRL VEC) Pre-registration required  
Contact: Rick Cook AB4U (804) 798-5048
- Sep 13 F.A.R.Fest (Gaithersburg, MD) (Laurel VEC) **Not on Hamfest Grounds**  
Contact: John Creel, WB3GXW (301) 572-5124 (After 6 p.m.)
- Sep 18 Southern Maryland ARC (Temple Hills, MD) (Laurel VEC)  
Contact: Ray Simpson, WI3A (301) 894-0606 (After 4 p.m.)
- Sep 19 Laurel ARC (Laurel, MD) (Laurel VEC) Pre-registration desirable  
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
- Sep 20 ARRL Roanoke Division Convention (Virginia Beach, VA) (ARRL VEC)  
Contact: Ed Brummer, W4RTZ (804) 898-8031
- Baltimore Radio Amateur TV Society (Baltimore, MD) (Laurel VEC)  
Contact: Les McClure, W3GXT (410) 833-8667
- Sep 29 Maryland Mobileers ARC (Annapolis, MD) (Laurel VEC) Pre-registration  
Contact: John Kohl, KO4A (410) 757-8148
- Oct 9 Piedmont Technical Center (Culpeper, VA) (ARRL VEC) Pre-registration requested  
Contact: Bill Brown - AC4KP (703) 547-3089

(Continued)

This schedule of examinations appears each month in Auto-Call Magazine  
Sponsored by the Foundation for Amateur Radio



## Volunteer Examiner Cooperative - Continued

- Oct 10 Anne Arundel Radio Club (Davidsonville, MD) (Laurel VEC) Walk-in  
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083  
Williamsburg Area ARC (Williamsburg, VA) (ARRL VEC) Walk-in  
Contact: Andrew Swanson, WJ4X (804) 253-2811  
Massanutten ARA (Harrisonburg, VA) (ARRL VEC) Walk-in  
Contact: Marshal Cooper, N4ZKH (703) 856-8012 (6-9 p.m.)  
Mount Vernon ARC (Alexandria, VA) (Laurel VEC) Walk-in  
Contact: Frank Mackey, N4GUS (703) 455-1510  
Richmond Amateur Radio Club, Richmond, VA (W5YI VEC) Pre-registration required  
Contact: Dow Pierce (804) 232-8128
- Oct 17 Laurel ARC (Laurel, MD) (Laurel VEC) Pre-registration desirable  
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
- Oct 22 Baltimore ARC (Towson, MD) (ARRL VEC) Walk-in  
Contact: Robert Kennick (410) 426-8255
- Oct 28 Maryland Mobileers ARC (Glen Burnie, MD) (Laurel VEC) Pre-registration  
Contact: Jerry Gavin, NU3D (410) 761-1423
- Nov 7 Portsmouth ARC (Portsmouth, VA) (ARRL VEC)  
Contact: Art Thiemens, AA4AT (804) 484-2857
- Nov 14 Anne Arundel Radio Club (Davidsonville, MD) (Laurel VEC) Walk-in  
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083  
Mount Vernon ARC (Alexandria, VA) (Laurel VEC) Walk-in  
Contact: Frank Mackey, N4GUS (703) 455-1510
- Nov 20 Southern Maryland ARC (Temple Hills, MD) (Laurel VEC)  
Contact: Ray Simpson, WI3A (301) 894-0606 (After 4 p.m.)

If you presently have a Technician class license which was acquired prior to March 21 1987, keep a copy of this license available when you decide to upgrade to General class. It will be your responsibility to prove you are grandfathered for Element 3B (General Theory).

NOTE: All examinations require that you submit:  
Copy of your current Amateur Radio license (bring original)  
Completed FCC Form 610.

Check for appropriate examination fee.

Fees of individual VEC may vary.

ARRL VEC Exam fee is \$5.40

W5YI VEC Exam fee is \$5.40

Laurel VEC Exams, all tests are free.

Mountain VEC Exams, all tests are free

This schedule of examinations appears each month in Auto-Call Magazine  
Sponsored by the Foundation for Amateur Radio



# Elmer's Corner

## By Scott Schaefer - WR4S

*This column will be devoted to guiding new Amateurs through some of the common questions and problems encountered by all of us in our hamming endeavors. Many of the questions that come up regard the virtual plethora of equipment that is available on the market. I plan to give a brief synopsis on what's out there and what are the best buys for a new Amateur. I will also try to help out on problems pertaining to setting up a station. Send us your questions and we will try to provide the answers. Any input that might be helpful to newcomers will also be most welcome.*

*Write or phone me at 107 Melody Lane S.E., Vienna, VA 22180 (703) 255-7264*

---

Well, it appears that last month's column stirred up some controversy regarding how to supply DC voltage to your mobile rig. Let me try to explain what the confusion is all about.

The story started with Elmer (at his procrastinating best) waiting until past deadline to hand in his copy. In my haste to complete my diatribe I wrote "It is not necessary to run the negative DC line to the battery, you can pick up the ground side from the body of the vehicle." I made this comment based on two reasons, one that I have done it and didn't have any problems, and (the main reason) that professional installations done on VHF, UHF, 800 and 900 MHz equipment are commonly done this way.

Our editor had some misgivings about the comment but copy was due at the printers the next day, so she checked with several technical experts and got a negative consensus. She phoned me that night and asked what we should do. Being from the school of thought that "discretion is the better part of valor" and also not being 100% confident of my own facts, I agreed to change the paragraph to indicate that running both positive and negative leads is the appropriate method. I also added the suggestion about running "RG-8" coax. Auto-Call ended up getting quite an ear-full from an irate reader suggesting that Elmer be awarded the "Wouff Hong" punishment for stating such advice in his column.

Okay, you hams, let's get to the bottom of this and find out what the deal is! I asked the professional installation technicians where I work about their opinions. I had the opportunity to pick the brains of not only the "head cheese" regarding professional mobile installations but also picked up a copy of the "Mobile/Installation Guidelines" that are required reading for all installers. Here's the scoop...

Under NO circumstances run both positive and negative lines to the battery **unless both lines are fused**. Why a fuse in the negative line, you ask? Well, it's quite logical. If by some chance your ground strap from the battery (which goes directly to the chassis of the vehicle) becomes loose, the positive potential for the rest of the vehicle will start looking for ground and will find it quite nicely - after going through your mobile rig and resulting in severe damage to the radio - and possibly (in documented cases) leading to a fire destroying the vehicle.

If your ground line is fused, the fuse should blow before too much (if any) damage has occurred. But the standard "professional" mobile installation instructions say to "pick up your ground off the chassis of the vehicle" so that the ground for your transceiver is at the same potential as the rest of the electrical system.

Regarding the comment about "positive potential on the frame" of some cars, that's not applicable to any cars that anyone would ever run into today. It seems there was a car back about 30 years ago (I think it was English made..?) that may have had this anomaly, but in 99.99% of the typical ham installations you will encounter, this is not the case.

As far as the benefit of using shielded cable for your DC run, the answer is "if you have a problem with noise, it is one of the things you might try." Most problems seems to occur when the noise is induced onto the antenna, so changes in your DC wiring may not provide a cure.

So now you may say that this advice is fine for expensive "American made" radios, but what about the Japanese radios that hams are installing? The rules remain the same.

Let's hear from some of you readers and see what you have to say on this subject.

✕ ✕ ✕





# AMSAT

**Radio Amateur Satellite Corp.**  
P. O. Box 27, Washington, DC 20044  
Telephone: 301-589-6062

## ANNOUNCING

1992 AMSAT-NA Annual Meeting  
and  
Space Symposium

October 9, 10 & 11

INTELSAT HEADQUARTERS

All interested in space and amateur satellites are invited to attend this exciting meeting to be held at the international headquarters of Intelsat in Washington, D.C. It's a perfect opportunity to catch up on the latest developments in the design of Phase 3D as well as digital techniques for use on PACSATs and in other Amateur Radio applications.

The Space Symposium will begin midday Friday, October 9th with registration, informal get-togethers and tutorials. In addition a special AMSAT/ARRL sponsored Education Workshop will be held on Friday afternoon and will be conducted by Rosalie White, WA1STO. A full schedule of talks for beginners, experienced users and other interested people will continue on Saturday, October 10th.

Saturday evening, following attitude adjustment, the banquet buffet will be served in the beautiful and spacious Intelsat lobby.

You will get a chance to meet the new AMSAT Board of Directors during a question and answer session. In addition, those individuals who have made important contributions to AMSAT-NA during the past year will be recognized.

This will be the perfect opportunity to spend some time with your family in our nation's capitol discovering something of our past while looking into the future of the Amateur satellite program. Fill out the advance registration form or call AMSAT headquarters.

Symposium \$15    Buffet \$23.95

For additional information and advance registration form, write or call AMSAT Headquarters:

850 Sligo Avenue, Suite 600

Silver Spring, MD 20910

(301) 589-6062

FAX 301-608-3410

Deadline for registrations is October 1



# F.A.R.FEST™

**SUNDAY, SEPTEMBER 13, 1992**

**Montgomery County Agricultural Center (Fairgrounds)  
Gaithersburg, Maryland**

## TALK-IN

Starting at 6:00 Am Sunday the F.A.R.FEST site talk-in station will be on the air at 146.52. for directions and information. Repeater 146.355/955 will also be used. (Courtesy Montgomery Amateur Radio Club).

## LICENSES - SALES TAX - FEE STRUCTURES

- 1 **A Traders License is not required by those displaying or selling goods, wares, or merchandise at this event.**
- 2 **A person "regularly engaged in business" is required to collect Maryland State Sales Tax.**
- 3 **A vendor who purchases, manufactures, assembles, or fabricates tangible personal property specifically for resale shall be considered as "regularly engaged in business."**
- 4 **Out-of-State Sales Tax Licenses are not valid in Maryland. Forms will be available for those requiring Maryland Retail Sales Tax Collection Licenses.**
- 5 **Persons not regularly engaged in business either within or out of the state of Maryland shall be considered making "casual and isolated sales" and will not be required to collect tax.**
- 6 **Persons desiring to conduct business or make sales at the F.A.R.FEST shall accept the judgment of the F.A.R.FEST Committee on all matters concerning licensing, taxes, and fee structures.**

## PARKING

Please note free parking areas marked on map. Cars parked illegally are subject to towing by authorities at owner's expense.

**HANDICAPPED PARKING** - See gate attendants at South Gate Entrance.

## PROCEEDS

This F.A.R.FEST is sponsored by the Foundation for Amateur Radio with the support of more than 50 Affiliated Clubs in the Washington-Baltimore Metropolitan areas. Its purpose is to provide a marketplace for the buying, selling, and trading of Amateur Radio and Electronic Equipment. Proceeds realized from the F.A.R.FEST will be applied toward the scholarships which are awarded annually by the Foundation and for other expenses of the organization.

**GENERAL ADMISSION** - \$5.00 Adults, Children Under 12 Free. Please enter North Gate. Gates open at 6:00 AM Sunday. Grounds must be cleared by 5:00 p.m. Sunday.

**COMMERCIAL EXHIBITS** - Will be in exhibit areas #1 and #2 (see map).

**FLEA MARKET** - Enter South Gate  
Advanced flea market table(s) registration/sale (and prepaid) are available at \$17.00 each.

**TAIL GATING** - Enter South Gate  
\$7.00 per space for standard size vehicles only in areas designated. Larger vehicles will be charged on a pro-rated basis in multiples of \$7.00.  
Grounds must be cleared by 5:00 p.m. Sunday.

## RESERVATIONS

Send all requests for advance commercial and flea market reservations to:

**F.A.R.FEST 92**

**Foundation for Amateur Radio  
3513 Old Post Road  
Fairfax, VA 22030**

Make checks payable to **Foundation for Amateur Radio**. Please include name, address and phone number on all correspondence and checks. Contact Nancy Draheim at (703) 691-0078.

## ACTIVITIES

**Spouses Program:** Part of area #4 is reserved for the afternoon. Organized activities will begin at noon (12:00) and continue into the afternoon. No service is provided. (Courtesy WAYLARC)

### **This is a family oriented hamfest.**

*All items not appropriate or which do not relate to amateur radio or computers (XXX adult disks, guns, etc.) will be judged unsuitable and will not be allowed for display or sale. All decisions shall be made by the F.A.R.FEST Committee and their judgment is final.*

**Please! Leave it cleaner than you found it.**

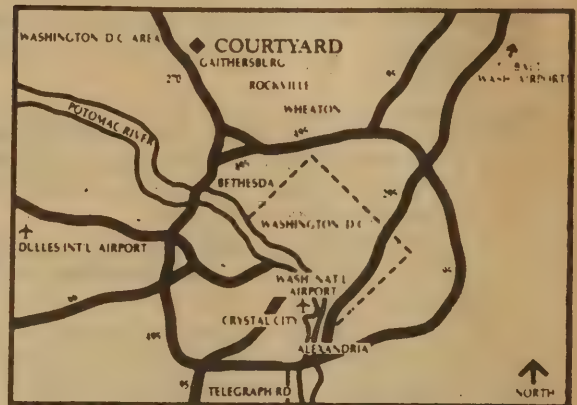
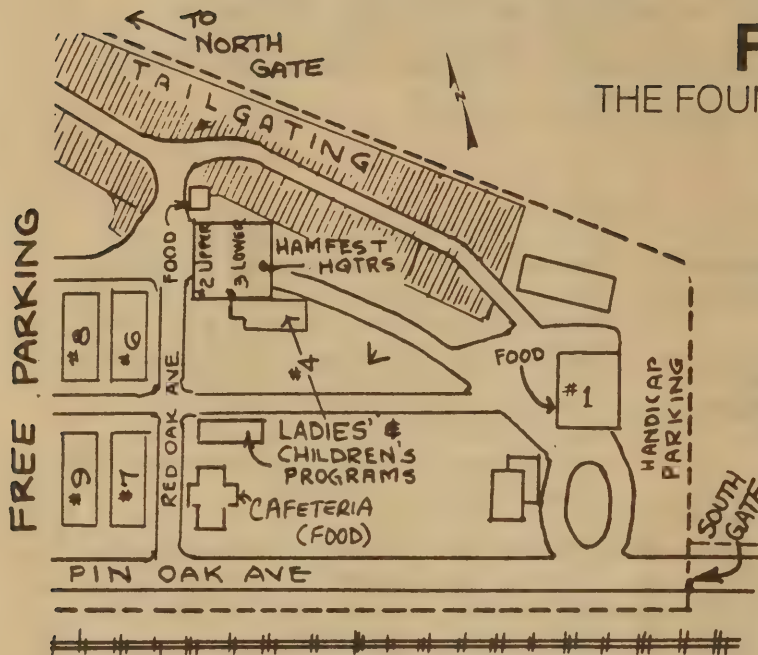




# #92

## F.A.R.FEST 92

THE FOUNDATION FOR AMATEUR RADIO  
SEPTEMBER 13, 1992



### FCC EXAMS

Novice through extra class Sunday September 13, 1992.  
Registration at 8:30 AM.. Exams start at 9:00 AM..  
Advanced registration requested. A limited number of  
"walk-ins" will be accepted. Contact John Creel (301)  
572-5124 after 6:00 P.M.  
Send a completed form 610, photocopy current license  
and SASE to:

LAUREL AMATEUR RADIO CLUB, INC.  
P.O. BOX 3039  
LAUREL, MD 20708-0039

### SPONSORS

FOUNDATION FOR AMATEUR RADIO  
VEC: LARC 3

### NOTICE

Information on the Foundation for Amateur Radio (FAR)  
official publication Auto Call may be obtained by writing:

AUTO CALL  
P.O. BOX 7612  
FALLS CHURCH, VA 22046-1452

### SUPPORTERS

ELECTRONIC EQUIPMENT BANK  
AMERICAN RADIO RELAY LEAGUE  
FOUNDATION FOR AMATEUR RADIO, INC.  
ICOM AMERICA

### HOST HOTEL

Gaithersburg/Lakeforest



## COURTYARD

Marriott

F.A.R. FEST  
\$44.00 +12% tax  
single/double

805 Russell Ave.  
Gaithersburg, MD 20879  
301-670-0008

Exit 11 off I-270 at MD Route 124E. Continue on 124E, Montgomery Village Avenue, to Russell Avenue. Left on Russell Avenue. Hotel is located one block, on the right. Located across Montgomery Village Avenue from Lakeforest Mall.

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We wish  
to thank  
EEB  
for their  
continued  
sponsorship.



# The National Capitol DX Association Presents The Washington D.C.



“International DXposition”

## DXPO-92



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October 10 and 11, 1992 • College Park, Md. Holiday Inn

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*in the nation's capital, where all the family can enjoy the visit!!!*

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### • Early Reservation Information •

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#### *and the tradition continues...*

The National Capitol DX Association is pleased to announce that it will once again sponsor the premier East Coast DX event of the year, DXPO-92. This event, held in the nation's capital, will provide the most DX "bang for the buck" found anywhere. There will be activities for everyone from the newest DXer to the "oldest" seasoned Honor Roll recipient.

The program is DXing! There will not be the usual dealers or flea markets, but there will be all the DXing and DXers you could want.

The dealers have not forgotten us however; as you will see they have been most generous in their support of DXPO-92.

*Washington D.C., for the tourist..*  
Washington D.C. is for everyone (not just DXers). Bring a friend, your spouse, your family. Visit the seat of our nation's government, museums, theater, Georgetown, and of course the National Zoo. Everyone loves Washington D.C.

#### *the Schedule of Events...*

**Saturday, October 10, 1992 • 12:00 - 10:00pm**

- Registration opens (10:00am): QSL checking
- ARRL Forum: W3ABC & N4MM
- DXCC/DXAC Forum: K8CH, N2SS, & K4MQG
- Honeymoon DXpedition: V85, 9M6, VS6  
Bob Schenck; N2OO, 1S1DX, 9M6MU, 9M6OO,  
N2OO/SV1, N2OO/SV5, etc, etc...
- ICOM Presentation: Mike Varbero, Bellevue Service Support
- Large Station Design: Frank Donovan, W3LPL
- Line Noise Identification: Mike Martin, PEPCO RFI Investigator
- The XU1SS Story: Ned Raub W1RAN
- DX attitude adjustment session (RagChew & Cash Bar)
- **Banquet Program:** 1. ZA1A, The Albania Story. This will be an updated program with information not seen at Dayton or Visalia. Wayne Mills, N7NG will be the featured speaker at this event.  
2. R3A-The Russian Coup - Video: Ed Kritsky, NT2X

**Sunday, October 11, 1992 • 9:00am-1:00pm**

- Auto tuning Shunt Fed Tower for 80 & 160m: Bill Leavitt, W3AZ
- DXing from East Africa: Tom Warren, K3TW, 5H1TW, AT0T, D68TW, J20TW, /4S7, etc, etc...
- Packet Cluster; Past, Present & Future: Richard Newell, AK1A
- Large Tower and Antenna Installation & Maintenance: Lenny Chertok, W3GRF
- A Thirty Year Perspective on DXing from Around the World: Fred Laun, K3ZO, HI8XAL, HK3NBB, HS1ABD, LU5HFI, XV4AL, etc, etc...

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(Mail in Advance Registration Form on back)



## DXPO-92 • Advance Registration Form • Deadline: Sept 15, 1992

*(Tickets will be held for pickup at the door)*

Advance registration is \$20.00 for the DXPO-92 program, which includes all the DX sessions and the door prizes. The advance registration for the DX Banquet is \$25.00, this includes Banquet Ticket and special Banquet door prizes.

### DXPO-92 Sessions Registration:

Name: \_\_\_\_\_ Call: \_\_\_\_\_ Amount Enclosed: \_\_\_\_\_

Name: \_\_\_\_\_ Call/non-Ham: \_\_\_\_\_ Amount Enclosed: \_\_\_\_\_

### DXPO-92 Banquet Registration:

Name: \_\_\_\_\_ Call: \_\_\_\_\_ Amount Enclosed: \_\_\_\_\_

Name: \_\_\_\_\_ Call/non-Ham: \_\_\_\_\_ Amount Enclosed: \_\_\_\_\_

Address: \_\_\_\_\_ Total Enclosed: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Enclose check or money order payable to: NCDXA DXPO-92  
Mail to: NCDXA DXPO-92  
C/O Ev Bollin-WA3DVO  
8000 Ray Leonard Court  
Palmer Park, MD 20785

For Information contact:  
Stuart Meyer - W2GHK  
Voice: 703-281-3806  
Fax: 703-281-3868

The DXPO-92 hotel and convention  
headquarters is the

**The Holiday Inn**  
**College Park, Maryland**

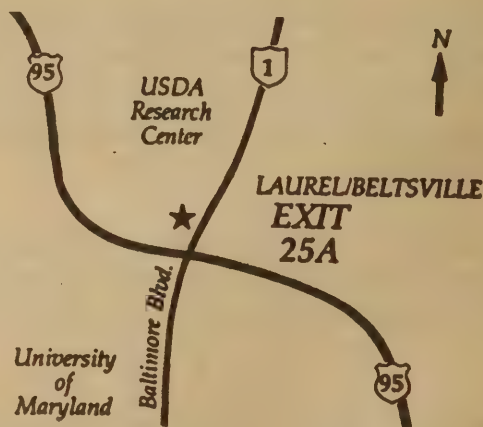
*(The official DXPO-92 Inn, less than 30 minutes  
from downtown Washington, D.C.)*

10000 Baltimore Boulevard (US Rt#1)  
(Exit #27a on the Washington Beltway I-95)  
College Park, Maryland 20740

*Special DXPO-92 room rate \$62.00*

For DXPO-92 reservations call the Inn direct  
301-345-6700  
or call: 800-HOLIDAY

Baltimore, MD



Washington, D.C.

WAS, WAZ, CQ-DX, VUCC and

DXCC QSL Checking for both Basic Awards and Endorsements will be performed at  
DXPO -92!!!

NCDXA is a Member of:



*Bring your cards, and we will see you there!!!*



**17<sup>th</sup>**  
**ANNUAL**

# VIRGINIA BEACH HAMFEST

September 19th & 20th, 1992  
Virginia Beach Pavilion



**Roanoke Division Convention**  
**East Coast's Largest Indoor Hamfest**  
**Area's Largest Computer Exhibit**  
**Virginia Beach, Virginia**

## COMMERCIAL BOOTHS

**Lewis Steingold W4BLO**  
3449 Dickens Drive  
Virginia Beach, VA 23452  
(804) 486-3800

## TICKETS & TABLES

**Manny Steiner K4DOR**  
3512 Olympia Lane  
Virginia Beach, VA 23452  
(804) 340-6105

## Ticket and/or Booth & Tables Registration Form

Name \_\_\_\_\_ Telephone \_\_\_\_\_

Business Name/Call Sign \_\_\_\_\_

Type of Business: Radio ☐ Computer ☐ Other \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_ Advance Tickets good for **both days**— \$5.00 (At the door— \$6.00) . . . \_\_\_\_\_

*Children under 12 free*

\_\_\_\_\_ **Commercial 10' x 10' Booth** for both days— \$100.00 per booth . . . . . \_\_\_\_\_

*Booth includes electricity*

\_\_\_\_\_ **Commercial 8' Table** for both days— \$30.00 . . . . . \_\_\_\_\_

\_\_\_\_\_ **Commercial Tables** (10 or more) for both days— \$20.00 per table . . . \_\_\_\_\_

\_\_\_\_\_ **Electrical Outlet** for both days— \$15.00 . . . . . \_\_\_\_\_

ENCLOSE SELF-ADDRESSED, STAMPED ENVELOPE  
FOR TICKETS AND REGISTRATION RETURN.

**TOTAL** \_\_\_\_\_

City \_\_\_\_\_  
Ordinance \_\_\_\_\_  
Prohibits \_\_\_\_\_  
Smoking \_\_\_\_\_  
in \_\_\_\_\_  
Pavilion \_\_\_\_\_

**\*\* Tickets Required to Rent Commercial Tables or Tailgate Space. \*\***

**Outdoor Tailgate \$15.00 (No Advance Registration)**

**Outdoor Tailgating** - a special area for "out of the back of your car" tailgating and good for both days. Area consists of one lined off car space with car parked within the space.



## Recognitions

A big vote of thanks to Hugh Turnbull - W3ABC and the Scholarship Committee for the tremendous effort put into the Foundation's scholarship program. There were 187 applications processed this year and 43 recipients selected. Approximately 300 man hours of effort went into the program. Scholarship awards will total \$35,150.

The Scholarship Committee is composed of Hugh Turnbull - W3ABC (Chairman), John Chitwood - K3RGB, Susan Crawford - N3SC, Dr. Robert Nauman - WA3VUQ, John Mergen - WA1QLG, and Carolyn Kaydash - N3DON. The Committee's report, with names of the scholarship winners, will appear in the November issue of Auto-Call.

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## Silent Keys

**Aubrey A. Childers - W4FPO** of Arlington, VA died of a heart attack on August 4 at the age of 79. He had been an active Amateur up until the last few months. His Government employment began with an engineering position with Fifth Army in Chicago. He came to Washington in 1956 with the US Army Signal Engineering Agency and was stationed at the DCA European Engineering Office in France during the early 60s.. He transferred to the Defense Communications Agency in 1962 and retired from there in 1974 as Chief of the Standards Division. Childers made many contributions to the worldwide Military communications systems and received many awards from the Army during his career.

Childers was a senior member of the IEEE, a Fellow in the Radio Club of America, member of QCWA, SOWP and AFCEA. He was also a member of the Masonic Blue Lodge No. 22 in Alexandria and 32nd-Degree Mason.

(Submitted by W4HU)

**William (Bill) Halligan - W9AC**, founder and retired chairman of the Hallicrafters Company, died in Florida on July 14th at the age of 93. "Wireless Willie," as he was affectionately known, got his first ham ticket as a teenager and went on to found *Hallicrafters* in 1933. The company became a major manufacturer of electronic equipment for the home, industry, the military, and aerospace.

(W5YI Report 8/1/92)



## Packet Maps

The packet radio BBS and NODE maps that appear on the following pages were created by Ross Z. Merlin - WA2WDT, from data collected by Bill - WA3SCW and George - KA3DXX. SAS/Graph™ software was used on a '386 PC, and the output was produced on an HP LaserJet II.

Locations are based on guessed latitude and longitude. If you are a BBS sysop or node-op, you should provide this info (along with any other additions/corrections) to KA3DXX@KA3DXX, the secretary of DMARC (the packet radio coordinating organization for this area).

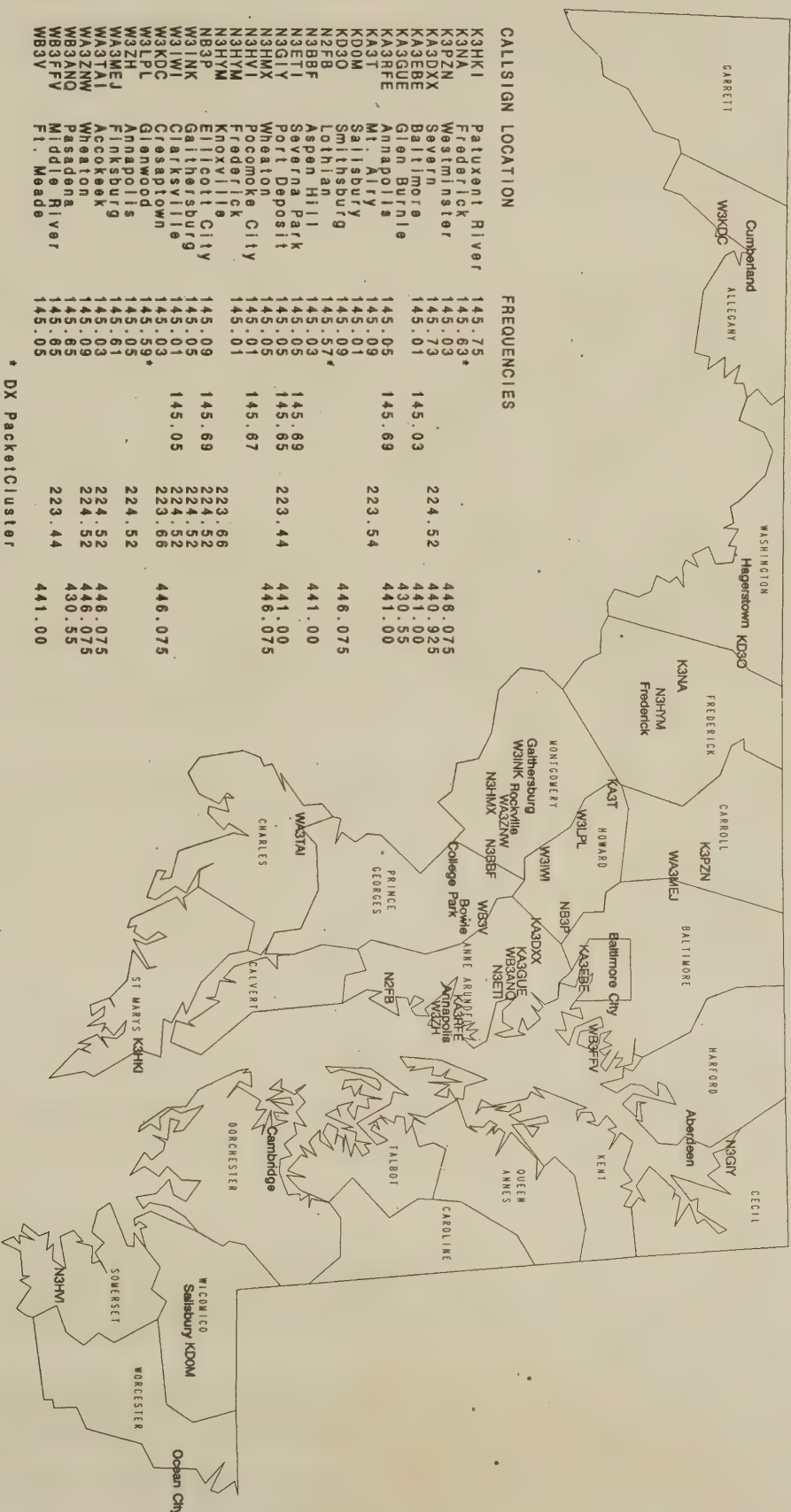
Would anyone like to collect the data (including latitude and longitude in degrees, minutes, and seconds) for Northern Virginia? If so, or if you have any other comments on the maps, please send them to WA2WDT@W3INK.



# Maryland Packet BBS

Data as of July 1992

© 1992 WA2WDT



\* DX PacketCluster

430.55 MHz at 19.2 kilobaud  
440.925 MHz at 2400 baud  
all others at 1200 baud

145.01 MHz is primarily for BBS to BBS forwarding.  
Please use other freqs. for user access if possible.

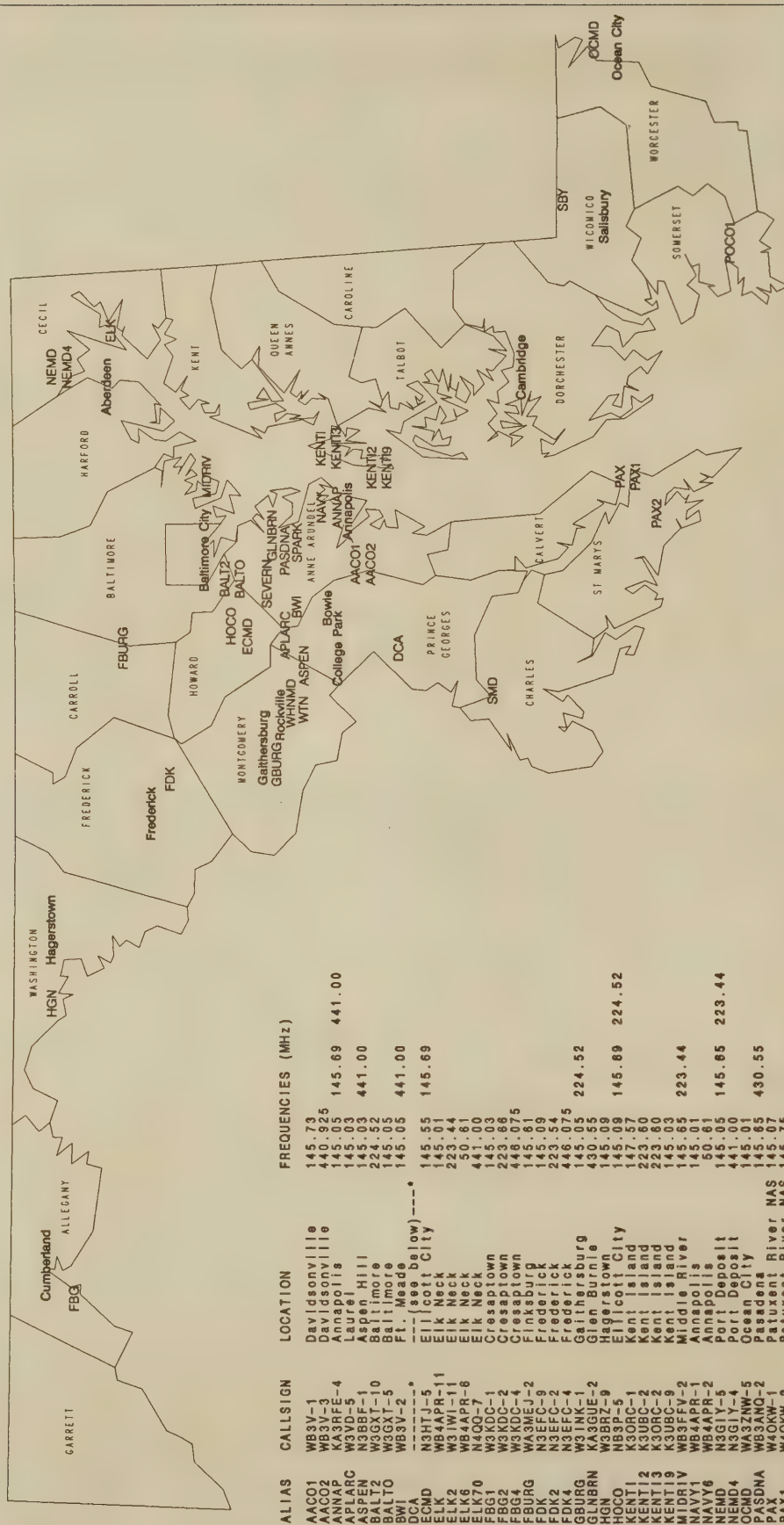
These BBS are also accessible by landline:  
K3DXX 410-551-6517 W3JNK 301-590-9829  
K3O 301-416-0505 W3FFV 410-335-0858  
N3ETI 410-544-7802 W3V 410-672-1249  
Contact the SYSOP for more info.



# Maryland Packet Nodes

©1992 WA2WDT

Data as of July 1992



\* DCA Node Stack Silver Hill, MD

Alias:	DCA	DCA1	DCA2	DCA3	DCA4	DCA6	DCA8
Callsign:	K3AF	K3AF-1	K3AF-2	K3AF-3	K3AF-4	K3AF-6	K3AF-8
Frequency:	145.07	224.52	147.57	446.075	145.67	441.00	50.61

ALIAS	CALLSIGN	LOCATION	FREQUENCIES (MHz)
AAC01	WB3V-1	Davidsonville	145.73
AAC02	WB3V-3	Davidsonville	440.925
ANAP	K3RFE-4	Annapolis	145.05
APLARC	W3V-5	Laurel	145.03
ASPN	N3BBF-1	Aspen Hill	145.03
BALT2	W3GXT-10	Baltimore	224.52
BALTO	W3GXT-5	Baltimore	145.03
BALTO	WB3V-2	Baltimore	145.03
DCA	N3HTJ-5	--- (see below) ---	441.00
ECND	WB4APR-11	Ellicott City	145.55
ELK	WB4APR-11	Elk Neck	145.01
ELK2	W3IW-11	Elk Neck	223.44
ELK6	WB4APR-6	Elk Neck	50.61
ELK70	N4QQ-7	Elk Neck	441.00
FBG1	W3KDC-1	Cressknot	145.03
FBG2	W3KDC-2	Cressknot	223.68
FBG4	W3KDC-4	Cressknot	446.075
FBURG	W3WEC-2	Frederick	145.03
FDK1	N3EEC-2	Frederick	223.54
FDK2	N3EEC-4	Frederick	446.075
FDK4	N3EFC-4	Frederick	224.52
GBURG	W3INK-1	Gaithersburg	145.05
GLNBRN	K3GUE-2	Glen Burnie	430.55
HGN	W3BRZ-9	Hagerstown	145.09
HOCO	NB3P-5	Ellicott City	145.89
KENT1	K3ORC-1	Kent Island	147.57
KENT12	K3ORC-2	Kent Island	223.60
KENT13	K3ORC-2	Kent Island	223.60
KENT19	K3ORC-9	Kent Island	145.03
N10V1	WB3RFR-1	Middle River	145.03
N10V1	WB3RFR-2	Middle River	145.03
N10V1	WB4APR-2	Annapolis	145.03
N10V1	WB4APR-2	Annapolis	150.61
NEND4	N3GIV-5	Port Deposit	145.05
NEND4	N3GIV-4	Port Deposit	441.00
OCND	W3ZNV-5	Ocean City	145.01
PASDNA	WB3ANQ-2	Pasadena	145.65
PAX	W4OKW-1	Patuxent River NAS	145.07
PAX1	W4OKW-2	Patuxent River NAS	145.75
PAX2	K3HK1-1	Patuxent River Park	145.01
POCO1	N3HVI-1	Pocomoke City	145.01
POCO1	N3HVI-3	Pocomoke City	145.01
SEVERN	NF3A-3	Severn	224.52
SEVERN	W3DAX-4	Severn	440.925
SPARK	N3ET1-5	Accokeek	145.03
SPARK	N3ET1-5	Accokeek	145.03
WHNMD	W3ZNV-4	Wheaton Park	224.52
WTN	N3HAX-5	Wheaton	446.075
			145.05

430.55 MHz at 19.2 kilobaud  
 440.925 MHz at 2400 baud  
 all others at 1200 baud



# Goddard Radio Club

WA3NAN

**Meetings:** Third Wednesday of the month at 5:00 p.m. Goddard Radio Club Station, Soil Conservation Road, Greenbelt Maryland, across from the Soil Conservation Road gate of the Goddard Space Flight Center. This road may be accessed from either Route 193, Greenbelt Road, or Powder Mill Road.

**Repeater:** 146.835 MHz

**Net:** Information net every Thursday evening at 9:00 p.m. local time.  
All Amateur Radio operators are welcomed.

**Information:** Chuck Sommer - N4OSD (301) 286-6790 or  
Vikki Gigante - KA3PVS (301) 249-2609

Hello, all! Well, many exciting things are going on in the wonderful world of GARC this month. First of all, there is another SAREX and spacelab mission scheduled for September 10. This is STS-47, with Jay Apt on board providing opportunities for 2-meter voice contacts in a 57 degree inclination orbit pattern. WA3NAN will, of course, be up and at it during the entire mission. It has come to the attention of the administration at WA3NAN that there is a rumor floating around that we are not committed to the future of shuttle retransmission. Just to set your minds at ease, nothing could be further from the truth. If it were the case that we were not committed, the fact that progress continues on the shuttle retransmission trailer, dedicated to the future of shuttle retransmission, would not be the case. We are committed to the future of retransmission, it is just that we are trying to figure out how to support 20-28 day round the clock missions. We took a beating with this last thirteen day round the clock mission and know that our operators would not survive too many longer ones. Therefore, once again, a call is hereby going out to those of you who would like to see shuttle retransmission keep going to get trained and join our pool of dedicated volunteer operators. If you are interested, call Vikki at (301) 249-2609. Shuttle retransmission is here to stay as far as WA3NAN is concerned! Don't worry about it!

The next exciting thing going on is our annual open house meeting and cookout. This is scheduled for the third Wednesday in September - September 16 from 5-9 p.m. at the club station. Come on down, bring a friend and show them what Amateur Radio and shuttle retransmission are all about!

Last, but not least, we are advancing in our preparations for Holidayfest '92, currently scheduled for Sunday, December 6, from 8 a.m.

to 4 p.m. at Prince George's Community College in Largo, Maryland. There will once again be symposiums, a YL Panel discussion program, free VE exams provided by the Laurel VE Group, a code speed contest and full service food menu for breakfast and lunch. If you would like to reserve a table or need more information on Holidayfest, see page 48 or contact Chuck Sommer at (301) 286-6790.

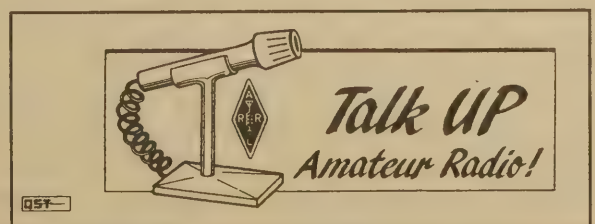
Shuttle retransmission frequency coffee mugs are selling briskly and we will have more very soon. To get your mug and never forget the frequencies again, call Chuck at 286-6790 or Vikki at 249-2609.

We will be at the F.A.R.Fest, C.A.R.A., Virginia Beach and York Hamfests. Stop by and see us.

It has come to our attention that there is a new Amateur Radio journal which will make its appearance this month called "Y.L. World." Finally, a journal that tells the world about Amateur Radio in language anybody can understand! A regular column about shuttle retransmission will appear in this journal and it will be published six times a year. Watch for it! Subscription information can be obtained by writing **YL WORLD**, P.O. Box 254, Sanger, TX 76266. We'll have information on this journal at the hamfests we attend.

Have a great autumn!

Vikki - KA3PVS





# AMSAT-NA Local Washington Chapter

There is a new local AMSAT group formed in the Greater Washington, D.C. area that you may like to get to know!

In January, Ken Nichols - KD3VK hosted a charter meeting at the Intelsat headquarters building. On July 12 we held a follow up meeting at the NASA Goddard Space Flight Center. A local 2-meter FM net has been active each week since April. (The host repeater is graciously provided by the Goddard Amateur Radio Club on 146.835 MHz in Greenbelt, MD. Plans are in the works to link with other repeaters to extend the coverage in the Washington-Baltimore-Annapolis-Northern Virginia area.) Any individual interested in any aspect of Amateur satellites is invited to participate!

The local AMSAT chapter is a grass roots organization. There are no dues. Information is disseminated via the weekly net, packet radio, and SASE. The group provides a spring board for one to meet other local "astro" hams, solve sat station problems, educate, build projects, inform, perform demos, assist AMSAT-NA HQ, and sometimes just socialize and talk turkey, er, "birds".

To many, Sunday, July 12 was considered "AMSAT DAY". There were three key Amateur Radio events that centered around Amateur satellite topics. First, the local meeting hosted by NASA was attended by over 70 individuals. There were great presentations made by Tom Clark - W3IWI, Dick Daniels - W4PUJ, Howard Ziserman - WA3GOV, Joe Kasser G3ZCZ, Walt Daniel - N3KVQ, Ken Nichols - KD3VK, Eric Rosenberg - WD3Q, and Jesse Buckwalter - NZ3F. (Thanks, guys!). Printed surveys were distributed and the results are being distilled to more formally define the purpose, needs, desires and direction of the group. (You may send me an SASE for a copy of the survey sheet. Please return ASAP.)

Frank Bauer - KA3HDO was missed while he and his family were touring the USA in their Winnebago mobile. Talk-in was provided by GARC member Pat Gossard - N3KGY. (Thanks a 1E6, Pat!) Second, the National Teleconference Radio Network (NTRN) program hosted by Roy Neal-K6DUE, was retransmitted by WA3NAN over the space shuttle air to ground retransmission frequencies on HF, as well as

on the high quality, expansive local coverage 147.45 MHz simplex frequency. The NTRN featured discussions on the newest worldwide OSCAR satellite building project, called AMSAT Phase 3-D. Guest commentators included author Arthur C. Clarke on how he conceived the idea of GEO satellite communications, Dick Daniels - W4PUJ on managing the Phase 3-D project, Rick Ensign - N8IWJ on educational aspects, Tony England - W0ORE on Amateur Radio in space, and others. A special thanks goes to Bill Pasternack - WA6ITF, Ron Parise - WA4SIR, Bill Boston - N3DCI, Chuck Sommer - N4OSD, Dave Gossard - N3DRL, Bill Graettinger - W3IUI, and Frank Turano - KA3GAL for making local reception and retransmission of the NTRN possible.

Are you looking for ways to become active with AMSAT-NA and the new local group? Here are some immediate opportunities that are available: (1) Participate at the AMSAT-NA Annual Meeting And Space Symposium on October 9-11. This meeting is usually held out of state so be sure to jump at the chance while it is here! Contact AMSAT-NA Headquarters at (301) 589-6062 for more information. (2) Assist AMSAT regional representative Howard Ziserman - WA3GOV in staffing the AMSAT table at the many local hamfests. Call Howard at (301) 581-9057 for more details. (3) Act as a WA3NAN space shuttle retransmission control operator, especially during SAREX missions. Contact GARC Re-transmissions Director Vikki Gigante-Hueber - KA3PVS at (301) 249-2609. (4) On the survey form, indicate what you would like to see in the local AMSAT group. Note a project that would be neat for us to undertake. Suggest a satellite demonstration that would be exciting and cost effective that you could help drive. Send in an SASE or two (business size envelopes only). (5) Help extend the local two-meter net regional coverage. Provide me with contact information of your repeater trustee and the chief technical guru if your linking with 146.835 is possible. (I have been in touch with T-MARC and the results look positive.) Come join the fun. Be sure to check in to the local net! We love to share thoughts on tracking and working the satellites.

Pat Kilroy - WD8LAQ



# Northern Virginia FM Association, Inc.

**Meetings:** 3 times per year (fall, spring, winter)  
**Weekly Nets:** NVFMA Net: Every Wed., 8:00 PM local, 146.79  
ARES/Public Service Net, Every Sun., 9:00 p.m. local, 146.91  
On Air Equipment Clinic, First Wed. 7:30 p.m. local, 146.79  
**Repeaters:** 2-Meter: 146.79- (W4LBL-FFX City) & 146.91- (W4XG-Tysons Corner)  
440 Mhz: 444.75+ (K4JYF-Tysons Corner)  
220 Mhz: 224.50- (WB4YHD-FFX City & X-linked to 146.79)  
224.34- (KB4CVL-Tysons Corner)  
1292.1 MHz out / 1272.1 MHz in (K6LEW-Tysons Corner)  
**Membership Info:** Norm Rosenthal - KB4VLP, (703) 425-7108 or  
Margaret Lindsley - KB4IKU, (703) 818-8182  
**Mailing Address:** NVFMA, P.O. BOX 486, McLean VA 22101

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The NVFMA welcomes the Metro Area Scanner Listener's net the first and third Mondays of each month on the 146.910-repeater at 7:30 p.m. The first net was held on July 27, 1992. Topics will include frequencies, information and discussion for scanner listeners in Maryland, Virginia and the District of Columbia. All are welcomed to check into what will no doubt become a fascinating net.

The NVFMA Technical Activities Group meets the first Wednesday of each month, September through May. Talk-in on 146.91 and 224.34 Contact Sam Ruffin - KM4OI (703) 734-3499 (days) (703) 349-0977 evenings and weekends.

Many NVFMA engineering projects were completed during July. A new remote receiving site for the 146.79 repeater was installed in Tyson's corner. This has helped to provide desperately needed coverage to the east including I-495 in the American Legion Bridge area.

A 4-channel custom tone interface PC board needed to interface the remote receivers with the main site repeater and the Spectra Tac voting system has been completed and installed at the 146.79 and 146.91 repeater sites. Thanks go to Joe - W4LBL for design work and to Sam - KM4OI for CAD layout work on the board. The boards were professionally manufactured and should prove reliable.

With the implementation of the boards, the remote receiving sites for 146.91 at Pentagon City, Independent Hill, VA and Burtonsville, MD are back on line. This gives handheld coverage on the Washington, DC mall and at National Airport as well as good mobile unit coverage on I-95 south to Fredericksburg and on I-95 north to Baltimore. It is anticipated that it will take a few weeks to get the "kinks" out of the system and everyone's patience and assistance with signal reports are appreciated.

Dan - KC4OCG

## Foundation Meetings

The Foundation for Amateur Radio, Inc. meets at 8:00 p.m. on the second Wednesday of each month.

**Visitors are always welcome**

Phone (301) 725-5822 for information

The next meeting will be on September 9 in Takoma Park, Maryland  
Columbia Union College Science Building Auditorium, Flower Avenue  
Talk-in on 147.18

Take Colesville Road off the Beltway (Exit 23 S)  
East on Franklin Avenue to Flower Ave., South on Flower Ave.



# Mt. Vernon Amateur Radio Club

Meetings: Second Thursday of Each Month, 7:30 p.m. (except December)  
Mt. Vernon Governmental Center, 2511 Parkers Ln., Alexandria  
Repeater: WD4PDP/R 146.055 input 146.655 output  
Nets: Every Tuesday at 8:00 pm (0100 UTC Wednesday's)  
Starts on 2-meter then moves to 10-meter on 28.405  
Information: John - KI4HK (703) 780-2882 or Mike KE4ER (703) 780-8028  
Training Classes: John Forrest - WZ4A (703) 971-3905  
Mailing Address: c/o Frank Mackey - N4GUS, 8072 Athena St., Springfield, VA 22153

A SPECIAL 73 AND THANKS to Chris Morrow-W4WYL, now silent key, who was a loved and special member of our club for 8 years. We'll miss him.

SPECIAL THANKS to Steve-WB4EEA for the June program designed to get us in the mood for field day. His songs (written to old standards, played on guitar and sung solo) were lots of fun. Then we got to take a look at the logging program we were going to use, THANKS to Frank-N4GUS. AND LOTS OF THANKS to Glenn-W4OCC for arranging the July program of a panel of club members who are all very experienced in various aspects of ham radio. THANKS TOO to the panel members: Tom-N4BV, Steve-NJ4F, Doug-WA3WEP and Steve-WB4EEA. This was a great program enjoyed by all.

THANK YOU to all the visitors at field day and to "Red" Free-W3FTG, Leonard Wales-KD4GZP/KT, Michael May and Jerry Pryor, all of whom visited our meeting. We are really glad you visited and hope you can come again. WARM WELCOME to all our new members: Dave Souza-KA0LZD, Grover Tolliver-KD4LRR/AA, Jozef L. Hennigan, Thomas Moyers-KD4KCS, Amanda Lee-WB4NCH, Gary E. Moss-KD4ITJ, Christopher Worsley-KD4IBI, Theodore Marchese-KD4OTS, Gary Post-KD4LTD, Bob Rice, John Tillery, John Davis-KD4JPB, Timothy Baldwin-KA3ZNR, Daniel Burns-N4YKD, Jack Jeffery-KB4CG and Kenneth Lee-N5SWR. WOW! Thanks for joining our club, gang!!

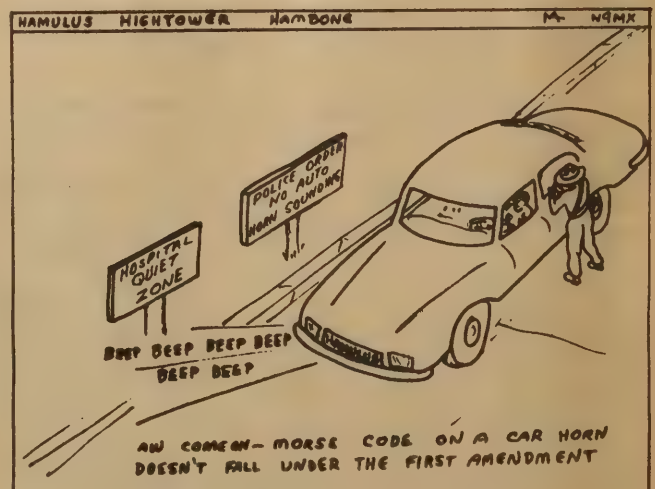
It's time for another MVARC/Alexandria Novice/Technician Class! John-WZ4A (703 971-3905) is the man to contact for details. The class will start September 14 and run for about 14 weeks (7:30-9:30 p.m.). Call if you're interested or have any questions.

Field Day this year was one of our best. We didn't have any major problems, the weather was good, and we made more contacts on each band than last year. THANK YOU EVERYONE who participated and made this such a success.

In the June and July testing session, we can tell that it's summer - there haven't been quite so many test-takers. But, CONGRATULATIONS to everyone who got new licenses or upgraded, in particular Doug-WA3WEP, who upgraded to Extra, and Bob-N4ENP, who upgraded to Advanced! [Remember, the exams are the second Saturday of each month at Lee District Park in Fairfax County at no charge. Pre-registration (and information) is available by calling Frank-N4GUS at 703-455-1510. Walk-ins will be welcome. Anyone interested in being a VE or helping at the exams (you don't have to be a VE to help out) should also get in touch with Frank.]

Hope to see you on September 10th for another great meeting - and then again on September 13 at the Gaithersburg F.A.R.Fest!

Marci - KM4VM





# **T-MARC**

## **The Middle Atlantic FM and Repeater Council**

**Frequency Coordinating Committee**

**1419 Larch Road, Severn, MD 21144**

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### **ANNUAL T-MARC MEETING SEPTEMBER 20TH**

T-MARC will hold its Annual Meeting at 1 p.m. on Sunday, September 20th at the Savage Community Hall in Savage, Maryland (near U.S. 1 and MD Route 32). The Council is soliciting agenda items on policy, procedures, or other matters of interest from the T-MARC area hams.

#### **Recent Coordination Activities**

The committee coordinated a proposed new 443.300 MHz repeater to K3LMS at Jefferson, Maryland, southwest of Frederick.

The Kent Island A.R.C.'s 224.280 and 443.850 MHz repeaters were re-coordinated for increased transmitter power.

Re-coordination of the Vienna Wireless Society's 448.375 MHz repeater was made to its new location in Fairfax, Virginia.

N3BLB had his 449.675 MHz repeater re-coordinated to a new location on Gambrill Mountain, northwest of Frederick, Maryland.

The Southern Patuxent A.R.C.'s 147.195 MHz repeater was re-coordinated at Leonardtown, Maryland with increased antenna height.

Final re-coordination of the Kent Island A.R.C. 146.94 MHz repeater was made.

The XTRA-104 Radio Club repeater was given final re-coordination onto 145.35 MHz.

Jack Biggs received final re-coordination of his repeater onto 146.82 MHz at Cockeysville, Maryland.

#### **Organization and Sponsor Information Changes**

Please keep T-MARC informed of changes in mailing addresses for all repeater sponsors. If an organization or sponsor moves, please let the committee know of the new address. Your assistance is greatly appreciated.

Pat Kilroy - WD8LAQ

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### **Sweet Dreams**

It used to be that teenage boys dreamed about driving a four-on-the-floor Corvette with 400 horsepower under the hood, mag wheels that would go from zero to sixty in less than seven seconds, and a good-looking blonde in the passenger seat. These days, those same boys fantasize about an IBM IX compatible with four megabytes of memory and a Hewlett Packard laser printer that will go from zero to 500 characters per second -- and a good-looking blonde telecommunicating from her terminal across the country. (From Westlink Report 7/15 Original author unknown but submitted by WD5GHW)



# Herndon Repeater Group

Meetings: On-the-air meetings every Monday at 9:00 p.m.  
Repeater: N4FSC/R 144.71/145.31 MHz  
Packet BBS: 145.09 MHz (BBSHRG)  
Mailing: Herndon Repeater Group, P.O. Box 5073, Herndon, VA 22070  
Training: Michael Weber - WB8RDN (703) 450-2304  
Information: Michael Rosati - N4FXP (703) 481-8380

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**Training Class:** HRG's annual Novice/Technician course will be held September 12 - November 14 at the Trinity Presbyterian Church on Drainesville Road in Herndon, VA. Additional information can be found in the Training Column in this Auto-Call. Flyers have been circulated throughout the area and the class is filling up. If you know of someone interested in this FREE class, please put them in touch with HRG. Seating is limited.

**Exams:** HRG will sponsor ARRL/VEC exams on Saturday, August 29 in Herndon. Pre-registration is required and seats are still available. HRG will also sponsor exams on Saturday, November 21, also in Herndon. Call Mike - WB8RDN at (703) 450-2304 to register for either session.

**Welcome Back:** We welcome HRG co-founder Craig Brown - N4FSC and family (wife Meg Brown - N4TEJ and two daughters) back to the area. For those who do not know, Craig designed and built the current 145.31 MHz repeater and co-founded HRG with Mike Rosati - N4FXP several years ago.

The Brown's had been living in North Carolina for the past two years but have now moved to Sterling. The call sign on the HRG repeater has returned to N4FSC.

**New Members:** HRG welcomes Louis - N4KWP.

**Field Day Results:** Here are the specific Field Day results as promised in last month's column: HRG operating from Lake Fairfax Park in Reston, VA made 1037 contacts, obtained 1200 of a possible 1300 bonus points, scored 9380 total points, operated 4A battery/QRP, used solar panels, had a satellite station, computer logging, and had an HF 3-element Yagi on a 65 foot mobile tower. Thanks to the HRG Field Day Chairman, Bill South - N4WNJ for pulling together the most successful FD in HRG history.

**Public Service:** Members of HRG provided Public Service communications for the annual Reston Youth Triathlon on Sunday, 26 July. Thanks to all who assisted.

Mike - WB8RDN

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## Montgomery Amateur Radio Club 1992 QRP Field Day Little Bennett Regional Park, Clarksburg, Maryland



Photo credit to NW2M



# Montgomery Amateur Radio Club

Meetings:	1st and 3rd Wednesdays of each month at 7:30 p.m. Executive Office Bldg. Montgomery Co. Government Center, 101 Monroe St., Rockville, MD. Park underground on G-2.
Repeater:	146.355 in (Rockville & Germantown)/146.955 out (Rockville)
Mailing:	M.A.R.C., P.O. Box 611, Gaithersburg, Maryland 20877-0611
Information:	Jeff Horlick - KZ3F (301)258-0112; Steve Todd - K2IYQ (301)253-4172
Training:	Jane Rosenthal - KA3YWU (301) 762-6262; Ron Rubin - N3KQY (301) 540-1505; Roz Bauer - N3JHY (301) 424-0458

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As noted in last month's AUTO-CALL column for the Montgomery Amateur Radio Club (M.A.R.C.), this issue - with minor exceptions - will be devoted entirely to documenting M.A.R.C.'s QRP Field Day. Where contributions were made by an individual or individuals (and there were many!), the Amateur Reporter's intent is to note the nature of the contribution and formally express the Club's appreciation.

For openers, the Reporter was assisted by Matt - N3LFZ (who recently upgraded to General Class--yeah!). Acting in the capacity of Associate Reporter, Matt used a microcassette recorder to capture his "live" impressions of events and activities as they occurred at the scene. These verbal collages have been used to amplify and verify the Amateur Reporter's Field Day Notes. Assisting in the video camera and still photographic arenas were Ken - KD3VK and Al - NW2M, respectively - who between them visually recorded M.A.R.C.'s 1992 Field Day for posterity. Speaking of Al - NW2M, he also generated the hard-copy logs used as a backup to the online logging programs installed on the lap-tops at each of the transmitting stations. For the record, it should be noted that ALL the M.A.R.C. Field Day operating stations were supported by lap-top technology (courtesy of Dick - K3DML who also supplied a transmitter) and appropriate logging software.

Talk-in to Little Bennett Regional Park in Clarksburg, Maryland was primarily provided by Jim - N3KTV, with able assistance by Eric - KA3ZMT, Steve - K2IYQ, and Ken - N3JBU. Participants and guests who availed themselves of the Talk-in service were amply rewarded by the sights and sounds associated with four transmitting stations on the HF bands - as well as Novice, packet, and solar capabilities! (Harry - KC3MX took charge of the solar station.)

As everyone knows who has fully participated in overnite Field Day exercises, emergency field conditions require that one keep up one's strength for the 24-hour duration. What this means is that the MOST IMPORTANT tasks are those associated with "feeding the troops." (A Field Day Army marches on its stomach, etc...) To this end, all M.A.R.C.onians owe a serious debt of gratitude to Pat - N3MIT and Tom - N3LGF. Without their time and considerable cooking talents, most of us would have been "running on empty" long before official QRT time. Thanks Pat and Tom...! This would also be the appropriate opportunity for the Club to express its collective appreciation to Richard Walther (father of Matt - N3LFZ). Richard was able to provision "vittles" at a substantial discount to M.A.R.C., thus saving the Club much money....

The Field Day Antenna Committee consisted of various individuals who (using time-honored, field-tested tools and techniques!) swiftly erected wire antennas up in the trees. Some participants in this activity included I.J. - K9ICF, Tom - AA3AC, Bob - N3JLN, Joe - N3KRQ, Jack - WU3N, Josh - N3KHU, and Jim - W6NRJ.

Field Day operations on ever-changing band conditions require alertness, persistence, teamwork, and consistency. M.A.R.C. demonstrated again this year its willingness to "go the distance" and compete successfully. While waiting for official ARRL results to be published in October, M.A.R.C. (a 4A-MD entry, using as its Field Day Club call the "2-by-1" loaned by Al - KN3U) is justifiably proud of the fact that the Club accrued approximately 5,000 points for Field Day 1992...

Another feat accomplished by M.A.R.C. is the conduct of a Field Day V.E.C. exam, with certificates and/or license upgrades. (page 38)



# Maryland Emergency Phone Net

Meetings: Every night, 3920 kHz, 1800 local time (All are welcome)  
Net Manager: George Korper - WD3W  
Secretary: Jim Mc Coy - N3EI  
Treasurer: Rino Masso - KC3ZJ  
Directors: KD3JK, WA3YLO, K3ONU, W3DQI (Alternate)

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*The Maryland Emergency Phone Net (MEPN) is a club, a member of the National Traffic System (NTS), and meets every night on 3920 kHz at 1800L for the purposes of training operators in net procedures and traffic handling; to handle traffic for Maryland and the District of Columbia; and to establish communication links in these areas so that, in the event of an emergency requiring Amateur Radio communication assistance, the MEPN will be prepared to exercise these links until the emergency subsides.*

All Radio Amateurs are invited to participate in the Maryland Emergency Phone Net. Those wishing to join the club and receive the monthly bulletin and rollcall sheet should contact either WD3W or N3EI. Yearly dues are \$7.00. There are currently about 55 members.

The July picnic was a resounding success: Tony - WA3YLO hosted on behalf of the Anne Arundel ARC; Net Manager George - WD3W welcomed Pud - W3DQI, Ross - K3USO, Al - WA3WRT, Winn - N3CMM, Dan - W3SWD, Buck - KC3Y and wife Bev + grandson, Harold - WA4GGH + grandson, Ken - N3HLY, Tony - N3BXW, Doug - N2IBM (president of AARC), and our motorcyle mobile Don - WA3JKV and wife Dee.

On the business side, several issues were discussed: The Maryland Emergency Operating Plan (EOP) will be discussed at the F.A.R. Fest at Gaithersburg; Auto-Call will become the official newsletter of the club; the net month will coincide with the calendar month.

So . . . hope to see you at Gaithersburg. The MEPN will meet at noon in its usual place in the first cowbarn outside the main market. Listen for an announcement, but look around noon-time.

Come join us on the net. See you on the air.

Pud - W3DQI

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## Montgomery Amateur Radio Club - Continued

Among these are Jane - KA3YWU and Matt - N3LFZ. Jane successfully accomplished that elusive goal (for some of us) of copying 20 w.p.m CW! Matt, who previously had passed the General Class theory exam, passed his 13 w.p.m test! The Club and the Amateur Reporter offer up congratulations to each for achieving these major milestones....

To "tie the ribbons on" Field Day for another year, suffice it to say that none of the success reported here could have been accomplished without the planning efforts of Co-Chairmen Rick - K3YNY and Steve - K2IYQ. No doubt, the Amateur Reporter speaks for the entire Club membership when conveying special appreciation to these two dedicated M.A.R.C.onians... Finally, the Reporter would like to personally thank Paul - KA3ORZ who worked patiently through the night with N3HSA making CW contacts on several bands.

With luck and a little less business travel on the part of the Traveling Amateur Reporter, next month's column should contain descriptions of M.A.R.C.'s recently stepped-up ARES-RACES activities; a report from Hank - N3ESR on the M.A.R.C.-supported Rockville Twilight 8K run; and a summary of W3CKU's program presentation on that ever-challenging aspect of the hobby, i.e., "QRP in a Suitcase." Until then, be sure to remain "clear and listening" to 146.955 MHz....

Erinn - N3HSA



# Fauquier Amateur Radio Association

Meetings: Second Tuesday of each month, 7:30 p.m. Local.  
Shadow Lawn Center, Warrenton, Virginia.  
Repeater: NZ4N/R 147.165 Mhz out; 147.765 Mhz in.  
Digipeater: K4LLQ-5 145.070 Mhz.  
BBS: N4YXW-1 145.090 Mhz.  
Net: Every Wednesday night at 9:00 p.m. Local, NZ4N/R

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The meeting of June 9 was devoted to the coming club activities.

The Golden Anniversary of Vint Hill Farm Station was celebrated with the special event station, K4LLQ, operating both days of the June 13-14 weekend. The Army provided us with a tent and commercial power and several club members erected a 132' doublet which was used on all bands 80-10 Meters. A TS-940S was used on the low bands and we were also equipped with 2-meter FM.

Operating commenced at 0800 Hours local time Saturday morning. The weather was truly outstanding during the weekend, and a total of over 500 contacts were logged -- many with former personnel who worked at the Farm over the past 50 years, including W2LV who originally suggested to the Army that the land now known as Vint Hill Farm Station be purchased for use as a radio monitoring location. Several Amateurs passed through our tent who were stationed at Vint Hill Farm Station during WW II.

Field Day was also a successful operation. Our new location adjacent to two shopping centers provided us with high visibility and easy access by the public. The new ABS plastic antenna masts, designed and manufactured by KB4UZL, were erected to a height of 36 feet with little difficulty, despite the high winds on Saturday morning. HF rigs were supplied by WY2V for SSB and by AB4YK for CW, a 2-meter Packet station by N3ND, and a complete satellite station was completed and erected just in time for Field Day by K4LLQ. This is the first year in many that the entire operation was successfully completed as begun using battery power only. It sure is nice having a quiet operation! Thanks also to the other Amateurs who helped provide us with food, solar panels, motor homes, etc., and to those whose skills were used to man the stations. Many thanks also to Mother Nature for an absolutely splendid weekend.

See you September 8.

Dan - N3ND

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## No regrets

The bath's hung full with lingerie  
That somehow wasn't put away;  
I don't ask why, 'cause I can guess  
Today my wife was NCS.

My wilted shirt will have to do  
Me, for another day or two.  
"I would have fixed one for you, Pet,  
But today the YL ham club met."

Tonight I dined on beans and bread,  
Did the dishes, made the bed;  
She'd taken off just after dawn  
To get the CD station on.

But when I spend a wad of cash,  
On mobile gear and such like trash  
That might have bought an evening dress  
Or winter coat - sure, nothing less

She smiles and strokes her VFO,  
And says in voice both sweet and low,  
It's okay, dear, old things will do."  
God bless her soul - she means it, too!

And when I sit up till the dawn,  
When the annual SS is on,  
She never scolds or spoils my plans  
Because the good gal understands.

So I've no cause the day to rue  
I taught her code and theory, too.  
We now see all things eye to eye:  
A lovely gal, a lucky guy.

Raymond Cotton - W1BTY  
(Written around 1955)

Reprinted in *YLs on the Air* column  
Worldradio 8/92



# Metropolitan Communications Network

Representing Six Meters in the Greater National Capital Area

**Meetings:** Quarterly, on the second Sunday of the month.  
Time and place to be announced.

**Repeater:** N3AGB/R, 52.250 MHz in; 53.250 MHz out.  
Accessible on 147.36 MHz and 444.35.

**On-the-air:** Saturdays at 2000 hours EST

**Mailing:** Bob Sporn - WA3GGO, 9927 Cottrell Tr, Silver Spring, MD 20903

**Information:** Bob Sporn - WA3GGO (301) 434-1719

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Congratulations to Richard Logan - WB3EPX and his wife Nancy on the birth of their first grandchild - Matthew Graham Marks.

Recently, Stan Brigham - W3TFA worked EH 92 B, Barcelona, on 20 and 40 meters. George Garand - WA4CGU worked KA3LPQ on a mountain top in Pennsylvania with his newly acquired ICOM 551-T.

THE SUNDAY MORNING COFFEE NET (50.4) MHz at 0900 Hours. On a band opening recently, Rick Weaver - KA3BTD worked a former member of our club, W.E. (Mitch) Mitchum - W3TFP, now in Alabama. Bob Curry - KC3VO worked Georgia and Poland and the Ukraine. Stan - W3FTA worked Illinois on CW. Stan also worked Canada celebrating its 125th anniversary using new call letter prefixes CJ- CJ1YX.

MARYLAND FREE STATE SIX METER SIDEBAND NET (50.125 MHz) Sundays at 2000 Hours Bryan - N1KCE of Reston, Virginia joined our net. Our much-travelled Vice-President, Chris Kushay - KA3LJR did some hamming up in Massachusetts, near Naragansett Bay. If Net time finds Chris mobile, he will start the net while enroute home.

Our third scheduled meeting was held in August, and because September is a very busy month, our next meeting will be in December. Hope to see you 13 September at the F.A.R.Fest Gaithersburg Hamfest.

Bob - W3GGO

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## Pentagon Amateur Radio Club

**Meetings** Monthly, on the second Wednesday of the month. Noon.  
PARC clubroom (5B272), The Pentagon

**Repeater:** K4AF/R, 444.55 MHz. CTCSS 88.5 sometimes in effect.

**Packet:** 145.07 Digi - K4AF, Mailbox - PARC, Node - PNTAGN

**Mailing:** P.O. Box 47063, Washington, DC 20050

**Information:** David G. Boyd - K9MX (703) 659-6241 (H)  
William Klein - N4VBW (703) 697-8157 (O) or (703) 590-2546 (H)

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The club is still in shock. Bill Klein - N4VBW, our immediate past president, passed his Extra exam! Robin - N4VZU was in Las Cruces, New Mexico at the time, buying a retirement home. We figure the reason Bill passed is that he wasn't distracted by his pretty wife and had time to study instead of . . .

Dick Williams - WE6H is now retired from the Air Force and working as a civil servant at NASA. Pat Oliver - WJØT and Dave Boyd - K9MX will shortly retire from the Army and Greg Mandt will be leaving the Air Force for a civil service job. That leaves club president Dick Lum - NH6E in dire need of some replacement officers. Any volunteers?

Spike - K9MX



# Department of State ARC

**Meetings:** First working Monday of each month at 1200 Noon.  
Main State Department Bldg, Room 3524, Washington, DC

**Foreign Service Net:** Every Sunday, 1500-1530Z on 14.316  
1530-1600Z on 21.416 and 1600-1630Z on 28.416

**Repeater:** W3DOS/R 145.19 MHz (open rpt), Round Table, Thursdays 2030L  
W3DOS/R located at 23rd & D Sts. N.W. Washington, D.C.  
DOSARC encourages repeater use for public service events in Washington area (e.g., Mall) and for general usage.

The twelfth examination, sponsored by the Department of State and The George Washington University Amateur Radio clubs was held on Saturday, July in the Tompkins Hall of Engineering of The George Washington University. Fifteen candidates were examined in a total of 30 elements. Examinations were given in 6 code elements (1A, 1B and 1C) and 24 written elements (2, 3A, 3B, 4A and 4B).

New licenses earned were: 3 Technician, 1 Technician w/HF, and 1 General. Upgrades included: 1 from Novice to Technician w/HF, 1 Novice to Advanced, 1 Technician to General and 1 Advanced to Extra. It appears that the number of applicants for the Technician without HF has leveled off to a low number as compared to the number of applicants taking advantage of the change in the law.

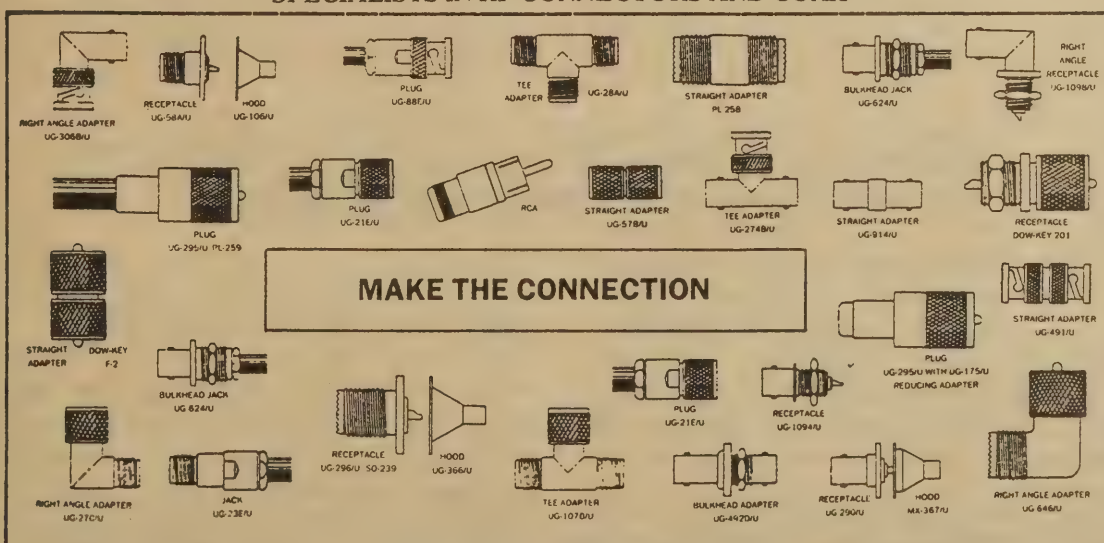
A word of thanks goes to ARRL, Auto-Call and the local Amateur equipment outlets as well as the local Radio Amateur clubs where notices of the examination were made available. Also, thanks to the following VEs who assisted with this examination: Fred Bardsley - WD4DHW, Thomas Dorset - WB4J, Curtis Jordan - NF3C, Ed Ober - KC4EFJ, Derrill Rohlf - W3WOX, and John Swafford - W4HU.

The next VE examination session sponsored by the Department of State and The George Washington University Amateur Radio Clubs is scheduled for 9:00 a.m. Saturday, January 9 at the same location. The facilities are ideal, subway transportation is convenient, and non-restricted parking is available on many of the local streets on Saturdays.

Derrill C. Rohlf - W3WOX

## The R.F. Connection

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# Green Mountain Repeater Association, Inc.

Meetings: Board of Directors / Control Operators, Last Monday each month.  
Luncheon: First Saturday each month, 11:30 a.m. at Fountain Cafe,  
Laurel Shopping Center Mall, U.S. Rt 1 (Baltimore Avenue) and Cherry Lane.  
Repeaters: KD3VR - 146.61 (Cheverly) and K3GXF - 146.88 (Greenbelt)  
Mailing: GMRA, P.O. Box 429, Riverdale, Maryland 20737  
Information: Boyd Nelson - KZ3Z (301) 434-0934

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Last year at the Green Mountain Repeater Association annual meeting, it was decided by the Board of Directors to extend the fiscal year from October 31 to December 31. Allowing for this extension and this year's operating and maintenance costs, finances are low.

It has been decided by the Board to try inducing local area retail merchants to place ads in the new operational/by-laws handbook which is to be mailed out to GMRA members. If this is successful, then the booklet can be printed and mailed before the end of this year. If it isn't successful, then the booklets can not be sent out until the Spring of 1993. Some of the financial problem is due to the rise in printing costs.

Looking on the brighter side, on Thursday, July 23, Joe-KD3VR and C.T. - K3GXF set up an Amateur Radio demonstration at Holy Trinity School in the Bowie area just off Rt. 450. Debbie-N5SKA teaches classes there.

She was instructing a summer special program with youngsters ranging from 6 to 11 years in age. Two rigs were in use, one HF and one VHF. On the 146.88 repeater, the youngsters were able to talk to Chuck-N3MFX and Paul-W3HFA, who were mobile. It was enjoyable to hear the youngsters when they were asked their name and age and what they did in class that day. Debbie-N5SKA was also the control operator. Fun was had by all. Thanks, guys and gals.

Please note: If the first Saturday of the month falls on a major holiday, like it did this past July 4th, the GMRA lunch meeting date will be shifted to the following Saturday. This was not thought of in time to be announced on the repeater or included in the June article in Auto-Call. Sorry for any inconvenience.

See you at the next lunch date.

Ken Easton - N3HLY

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## Quarter Century Wireless Association Joint Meeting of Chapters #23 and #91

Washington DC Chapter #23 and Vic Clark Northern Virginia Chapter #91 were again hosted to a joint annual picnic at the home of Ethel Smith-K4LMB on Saturday, July 18. Thirty-six people enjoyed a perfect afternoon. The weather cooperated, the food was delicious and the companionship was most congenial.

A brief business session addressed some of the financial and administrative problems of both chapters. Chapter #23 voted to move its checking account to a no-interest/no fee account

in order to avoid the administrative charges currently assessed by the bank. The outgo has been greater than the income!

An interesting talk on grounding your amateur station was presented by Bix-WA4WQF and prompted a good deal of response and questions. Everyone went home with new resolve to improve his/her ground system.

Everyone is already looking forward to the 1993 picnic.

Stan - W3TFA



# "Ole Virginia Hams" Amateur Radio Club

Meetings: Third Monday of each month, 8:00 p.m.  
Northern Virginia Coop Building  
10323 Lomond Drive, Manassas, Virginia

Repeaters: Voice: WA4FPM 146.97 and 224.66  
Digipeater WA4FPM-1 145.09  
Digipeater WA4FPM-3 223.40

Net: Each Thursday, 8:00 p.m., 146.97 and 224.66

Information: Harry Vorhauer - W4PVA 703-368-6050  
Steve Frick - N4OGR 703-361-0008

Mail Address: Ole Virginia Hams ARC, PO Box 1255, Manassas, VA 22110

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July was relatively calm, but June was a very busy month for the Ole Virginia Hams: The No-code Technician class which started in March was concluded; the OVH Hamfest was held on the first Sunday of June; ARRL/VEC exams were held the following Saturday; and, of course, there was Field Day. See the concluding paragraph about a QSO with a ham in Poland.

Congratulations go to seven members of the No-code class who passed the exam and should have their ticket by the time this issue reaches the readers. Three more members of the class are ready to test (or have since this writing). They deferred the exam since final preparations conflicted with preparing for school finals. We are confident they will succeed. Another class is planned for this fall. For information, call John Fritsch, 703-791-5995.

The hamfest was a success with the cooperation of Mother Nature who provided nice weather for the day. About thirty OVH members helped with the setup, operation, and clean up activities. The hamfest attendance was about 3,000 people. We had a record number of tailgaters this year. They just about filled the twenty-five acres available at the Prince William Fairgrounds.

The ARRL/VEC exams were administered to a total of 33 people. 63 elements were taken and resulted in 7 new No-code Technicians, 7 upgrades from Novice to Technician, 2 new General, 1 new Advanced, and 2 new Extra Class tickets.

Our Field Day activities were held again this year at the JC Long Park on Virginia route 15 near Haymarket. We had a type 3A setup with two power generators, 3 HF stations, a Novice station, and a 2-meter packet station.

Antennas used for the HF operation were three all-band (HF) verticals and an all-band (HF) dipole. The packet station was a mobile rig with a mag mounted 2-meter antenna. There were 116 phone contacts, 199 contacts, and 25 contacts by 2-meter packet. The score hasn't been figured yet at the time of this writing but it appears to be about 1600. Everyone who participated had a good time with good experience being gained for operation under emergency conditions.

I recently had a QSO with SP3MEY via CW. His name is Jerzy (pronounce as "George"). We had a nice chat, during which he asked for my address. Jerzy immediately sent me a QSL card and a letter. He is 40 years old and has twin daughters, 17 years old. They live in central Poland. Jerzy is an electronic technician and his wife, Wande, is a book keeper. His rig is four years old and homebrew. Wande has been unemployed since January. The factory where Jerzy worked was closed sometime around September of last year. With apologies, Jerzy is asking for unwanted, used clothing (including shoes). Jerzy is 5' 6" and weighs 165 lbs. Wande is 5' 6" and weighs 154 lbs; the girls are 5' 6" and weigh 132 lbs. They would be ever so grateful also for toiletries - soap, shampoo, razors, and everything folks need in order to maintain their dignity. I have sent some things which should fit the ladies, but Jerzy is a larger man than I am. I was able to send him only a North American callbook.

His address is: Jerzy Dobieralski,  
ul. Sienkiewicza 39/2, 62-600 Kolo, Poland

Jerzy apologized for his English - he explains that it is because he is an autodidact. I went to a dictionary and looked up the word, autodidact. Don't worry, his health is probably fine. Autodidact means "self taught."

Mike - N4REI



# Tri-County Amateur Radio Club

Meetings:	Semi-annual business meetings, time and date announced on the air and in the club newsletter.
Repeater:	KA3LAO/R, 147.780 MHz in; 147.180 MHz out.
On-the-air:	Tuesdays at 1930 hours (Local time). Amateur Radio Newslines Tuesdays at 1915 hours (Local time).
Mailing:	P.O. Box 10592, Silver Spring, MD 20914

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It is hard to believe that summer is over already. Cool(er) weather brings with it the reminder that we are only 3 months away from our second annual hamfest, Holidayfest '92, to be held at the P.G. Community College, Largo, Maryland, on December 6. Planning by both Goddard and Tri-County clubs for this event is gaining momentum. All Tri-County members are encouraged to participate this year, even if only for a limited time. Specialized skills are not necessary, we will gladly provide any necessary training. There is room for anyone who wants to help. You don't have to be a member of Tri-County or Goddard to participate. Everyone, including yours truly, who participated last year had a great time and we expect that this year's will be even better. If you are interested, join our Tuesday on-the-air net and we will be glad to direct you to the appropriate committee chairperson.

**Heard On The Repeater:** This feature of our report attempts to provide useful suggestions for efficient and effective use of the repeater:

- o The number of severe storms we have had this year has resulted in the frequent use of the 18 machine for SKYWARN and ARES emergency nets. Last month we discussed some suggestions to prepare for emergency operations. Unfortunately there are still some who insist on interrupting a net to ask for details about the emergency and then disappear. It is a better practice to check-in if you can help, if not, listen. It is amazing how much information you can be obtained by just listening. In this way the net operations can continue. Obviously if there is an emergency, don't hesitate to call net control.

- o It is interesting that we still hear stations who do not let the repeater completely drop before they begin their conversation. On the 18 machine (as well as many others) it is good practice to let the repeater completely

drop, and pause a moment before beginning your next transmission. This technique not only allows for the two minute timeout timer to reset, but permits anyone with an emergency to make a call. Remember, we do not have a "beep" to indicate the end of a transmission and that the timer does not reset until the transmitter completely drops.

All are welcome to join the Tri-County on the air net which meets each Tuesday at 1930 local. Make sure that you are listening at 1915 to hear the latest NewsLine information, ARRL bulletins, and the latest exam schedules throughout the area. NewsLine is an Amateur Radio news service from California which always has information of interest to the Amateur community.

New members are always welcome to join the Tri-County ARC. We have a family membership plan which makes it convenient for our growing Amateur families. For membership information contact us at the post office box, join us during one of the Tuesday net meetings, or contact Paul - N3GII, Tri-County Membership Chairman.

Greg - WA3FSC

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## Publication Contest

The Amateur Radio News Service is now accepting entries for its national 1992 Publication Contest. The contest is open to all Amateur Radio organizations. Membership in ARNS is not required.

The contest is aimed at identifying and recognizing superior performance in Amateur Radio journalism. To enter your newsletter, submit one copy of any issue published during the period July 1991 through December 1992. For further information and an application, write to Amateur Radio News Service

11 S. La Salle Street, Suite 2100  
Chicago, IL 60603



# Arlington Amateur Radio Club

Meetings: Third Tuesday of each month at 7:30 p.m.  
Arlington Red Cross Chapter House, 4333 Arlington Blvd. (Rte. 50)  
Net: Tuesdays (except meeting nights) at 7:30 p.m. on 144.87/145.47 MHz FM  
Info: Robert D. Milligan - KI4MB, (703) 533-0650

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## July Meeting.

The most interesting part of the club's July 21 meeting was the self-introduction of visitor Jim - YV1JWF/YV1USA. It was an absolutely fascinating impromptu program. Jim said YV1USA is the callsign of the club station of the U.S. Military Radio Society in Venezuela, located on the highest peak in Venezuela. YV1JWF was his personal call. Jim is one of several U.S. (Army Reserve) Military Police selected to help train the Caracas Metropolitan Police and the Venezuelan Military Police. Until 1968, Venezuela had no police; it was the only country in the Western Hemisphere without police. As a result of the riots in Caracas in 1989, a civilian police force was established. Venezuela asked for U.S. assistance.

Jim, who isn't licensed in the U.S., said he didn't have to pass a Morse code exam to get his Venezuelan ticket. Nor did he have to pass a theory exam. He DID have to pass a background investigation. "To obtain a Venezuelan ham license," he said, "it's not WHAT you know - it's WHO you know." Jim noted that he planned to take a U.S. license exam the following week.

This armchair DXpedition was followed by a technical show-and-tell: Mike showed the full-wave loop he built for emitter locating and transmitting on 2-meters (he used it in the club's May 5, 1990 fox hunt), and Jim - AB4YP demonstrated the TV channel-22 corner-reflector antenna he showed at the June meeting.

Tom - N4BYF reported that, on Field Day, the combined Arlington and Alexandria clubs operated class 7A with 7 stations, including OSCAR and Novice stations. He noted that when the exercise ended, the club took possession of the R7 antenna, coax, tripod, connectors, and instructions donated to the club by Jim - AB4YP. Gerry - N3EVT reported on the Sunday activities. He and his YF Mary Elizabeth brought breakfast for all the happy

campers. He recalled seeing operation on 10-, 15-, 20-, 40-, and (he thinks) 75-meters, as well as packet and OSCAR.

Welcome to Milt - W4AWL, who joined just before the meeting to become the 43rd member!

## Please Send Photo!

Joe - AB4RA suggests that the club newsletter, the *Beacon*, publish one or two photos of officers and members each issue, so that he and others who can't attend meetings can get better acquainted with other members. Send your photo to Secretary Mike - NW3V at 5900 25th Rd. N., Arlington, VA 22207.

## RFI

Jim - AB4YP reports complaints of telephone RFI from the club's sponsor, the Red Cross, when the HF transceiver in the Red Cross chapter house is operated. It's being looked into.

## August Meeting:

Dr. Dennis Bodson, Assistant Manager of the National Communications System, Office of Technology and Standards, is slated to talk about emergency government communications at the August 18 meeting. Dennis co-authored an article on this topic in the March 1992 issue of IEEE Spectrum, and a more technical article on federal standards for HF radio Automatic Link Establishment (ALE) in the May 1992 issue of QST. Dennis is better known to Arlington ARC members as their Vice President - W4PWF.

At press deadline, the program for the September 15 meeting has not been announced. Stay tuned to the Arlington County Net, 7:30 p.m. Tuesday evenings on 145.47 MHz for the word!

Mike - NW3V



# Stafford Amateur Radio Association

Meetings: Weekly, 0730 a.m. every Saturday morning, at the McDonald's east of the I-95 exit to Stafford Courthouse  
Repeater: N4SMP/R 145.27 out 144.67 in. Autopatch for members.  
Mailing: c/o George Gautney - N4SMP, 9 Skyview Ct., Stafford, VA 22554-5232  
Information: Dick Kirby - W4GFB (703) 720-0406 or George Gautney - N4SMP (703) 659-5720  
Packet: 145.07, W4GFB-2

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Amateur radio and - more specifically - K4KBA came to the rescue last month when K9MX's tired old Honda bit the dust on I-95. The throttle cable had broken, but Charlie arrived on the scene and actually cut the cables off one of his speakers to make an emergency fix. Without ham radio, I might still be walking.

Lightning wiped out the controller on the Stafford repeater (145.77), but otherwise left the repeater undamaged and operational. You won't hear a squelch tail, but don't let that fool you - it is operating.

The annual picnic at Will Heidig's - K4ZSD was its usual success and the weather was spectacular. The food was great, the winery tour was fun (and the wine served at the picnic was terrific) and the companionship was the best part.

Watts - KC4WVM, finally got tired of complaining to the dealer about his poor, sick BMW and actually talked the dealer into giving

him a new one. But Charlie - K4KBA apparently parked his Volvo too close to Watts' old BMW. He hasn't been able to get it started since.

KI2P may drive a mean airplane during the week, but his judgment in hiring tractor operators is suspect at best. He recently had a lot of work done in his yard, but the tractor operator managed to roll the machine and - according to my impeccable (though erratic) sources, Chuck's tower may have been dented a bit. So if you happen to drive through the area and see a tower with a list, stop in. Chuck loves company.

Fredericksburg now has a very successful VE team in operation, thanks in large part to the Cavanagh's, who have been faithful assistants at the Stafford exams. They plan to run their exam sessions on the months Stafford does not. The next exam, incidentally, will be on Friday, September 25.

Spike - K9MX

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## The SS John W. Brown sails again

The restored World War II Liberty Ship John W. Brown will be sailing from Dundalk Marine Terminal in Baltimore on Sunday, September 6 for a six hour cruise on the Chesapeake Bay. Boarding time is 0800 - 0945. A continental breakfast will be served, then lunch, snacks and soft drinks and entertainment. The ship returns at 1600. The cruise is co-sponsored by the U.S. Navy Memorial Foundation and **PROJECT LIBERTY SHIP**. For ticket applications, call the U.S. Navy Memorial Foundation at (202) 737-2300, extension 722. For additional information, call the Foundation on extension 728.

The S.S. John W Brown is the only World War II Liberty Ship remaining on the east coast. A lot of time and effort and loving care has gone into its restoration. The cruise offers a most unique experience and a good opportunity to help support a very worthy cause. SHIP AHOY!

The Amateur Radio station aboard the ship will normally be manned by a crew of W3DJ, W4ER, W3QYL, W3TFR and with assistance of members of the Canton Ohio Radio Club and the South Jersey Radio Club and from on-board paying guest hams. Initial Operating frequencies will probably be 7.04 CW and 7.213, 14.3, 21.3 and 28.43 Mhz SSB. Operator's call signs will be used. For the latest Amateur Radio information call (410) 558-0646 from 0900 - 1600.



# Anne Arundel Radio Club

**Meetings:** First and Third Thursdays at 8:00 p.m.  
Davidsonville Family Recreation Center, Queen Anne Bridge &  
Wayson Roads off Md. Rt 214 near Annapolis

**On-the-Air** Thursdays when there is no club meeting, 2030 Local on 147.705/105  
Tuesdays at 2030 Local time on 28.410  
Maryland Slow Net (MSN) every evening at 1930 on 3.7170 MHz

**Address:** P.O. Box 308, Davidsonville, MD 21035

**Information:** Margaret (Holly) Bevan - N3BMB (301) 923-0229

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Over 60 Anne Arundel Radio Club members, families and friends are looking forward with great anticipation to the scheduled train excursion on August 29th from Union Bridge, MD to Blue Ridge Summit, PA. In addition to the fun of the trip, there will be Special Event stations: from sundown Friday until 5:00 p.m. Saturday on 7.237 MHz; from 11:00 p.m. Friday until 8:00 a.m. Saturday on 3.920 MHz; 2-meters on 146.530 or the Club repeater and packet on 145.09. Special QSL cards will be ready for exchange.

The Club hamshack was open during the Maryland-DC QSO Party so that interested members could use the equipment to take part in the event. (Stats later.)

During the VE Testing session at the clubhouse on July 11, 19 persons took 43 exams. Twenty-one exams were passed and there were 11 upgrades. The LARC-3 Team, composed of AARC members, included testers

Herman Turner - WK3P, Lois Turner - KA3VVQ and Ham Molz - N3FDH, Coordinator Oscar Ramsey - NV3G and Graders James Neiswonger - WB8DWD and Charlie Tiemeyer - W3RMD. Holly Bevan - N3BMB and Bettye Tiemeyer - K3VRZ registered. The next testing date at AARC is September 12.

Recent member upgrades include: Tony Young - WA3YLO and Bill McConnell - N3KPG to Extra; John Cutcher - KB3ADO, Bob Baltz - N3MNT, and Bob Ludwig - N3JOF to Advanced; Chuck Svenson - KA3YYE, Mike Mulrooney - N3ILE, David Walter - N3BFO and Dick McKelvie - N3MNG to General; Horst Brinker - N3BYG to Tech (with code), and John Elliott - N3NCJ to No-Code Tech (but not for long.) New calls include John Duvall - N3MTB, Donna Taylor - N3MNJ, Patrick Baird - N3MKP and Sandy Johnson - KA3WML.

Holly - N3BMB

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## Aviation Net

Are you a pilot or aviation professional? Or do you just love anything having to do with aviation?

If you answered yes to one of these questions, you should check into the Anne Arundel Radio Club sponsored *Aviation Net* that meets *Every Monday night at 8:30 p.m.* on the club's North County repeater (147.075) located in Millersville, Maryland. The purpose of the net is to promote aviation and air safety by discussing a wide range of topics and issues that relate directly to your personal experiences and opinions.

We look forward to having you join us for enjoyable and informative discussions.

Jeff Katz - N3KZV (410) 544-8927 evenings, 631-4301 days





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Amateur Radio Clubs  
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COLLEGE PARK, MD 20740  
301-572-2326**

**TABLES**

**\$20.00**

**Each Table Includes  
one PAID Donation**

**Plenty of FREE  
HARD SURFACE  
PARKING**



## SHACK SALES

Noncommercial advertising of Amateur associated equipment is available to subscribers of AUTO-CALL at a rate of 3¢ per word -- with a \$1 minimum. Commercial vendors and nonsubscriber rate is 17¢ per word - with a \$5.50 (1 inch) minimum. Special headings or special spacing (e.g. one item per line) may be used but such ads will be charged at the column inch rate. Estate sales for Widows Assistance handled by a FAR club will be published without cost.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone and all ads must be pre-paid. Since no effort is made to investigate advertisers, no warranty can be implied.

Copy must be received by the 5th of the month preceding publication.

### WIDOW'S ASSISTANCE

Estate of Steve Giannakis - K3KWV  
 Transceiver, 2-meter Yaesu Model FT-270R,  
 40 watts, w/handmike . . . . . \$150  
 Transceiver, 2-Meter Drake, Model TR-72,  
 crystal, w/handmike . . . . . \$50  
 Antenna Tuner, MFJ Versatuner V, 3 KW \$135  
 MFJ Grandmaster Memory Keyer . . . . \$70  
 MFJEcono Keyer II . . . . . \$30  
 Dummy Load, Waters Model 334, 0 - 1000W \$75  
 Heath SWR-Power Meter . . . . . \$35  
 Keyer, Bencher . . . . . \$40  
 Keyer, Vibroplex . . . . . \$40  
 Bug, Vibroplex . . . . . \$50  
 Bird Wattmeter Plugs . . . . . @ \$30  
     1 (2 - 30 MHz 50W) 1 (2 - 30 MHz 250W)  
     1 (100-250 MHz 100W)  
 Waters Coax Switch, 2 each mounted in cabinet  
 w/115 AC volt meter mounted in center \$35  
 Headphones, good quality, 3 each . @ \$10  
 Heath Speaker, good quality . . . . . \$5  
 Power Supply, 115VAC, output 12VDC at  
 6 Amps . . . . . \$25  
 Call Lou - W4MLR at (301) 572-7116, Beltsville,  
 Maryland (09)

**WANTED:** Old, odd, unusual bugs  
 (speed keys). Smiley - WB4EDB, PO Box 5150,  
 Fredericksburg, Virginia 22403 Phone  
 (703) 373-0996. (09)

Need antenna or tower work done?  
 Call L. Chertok - W3GRF.  
 (301) 297-4888

**FOR SALE:** HEATHKIT SB-104A HF rig with  
 Heathkit SB-604 120/240 volt power supply  
 and speaker. Has 80/40/20/25/10 meter  
 operations @ 100 watts CW & SSB. Excellent  
 working condition and all manuals included.  
 Price \$275. Mike - N3GPE (301) 468-9268,  
 Rockville, MD (09)

**WANTED:** TEN-TEC TRITON I or TRITON II,  
 with power supply, in good operating condition.  
 Cal Cotner - K4JSI (302) 585-1172,  
 Silver Spring, Maryland (09)

**FOR SALE:** KENWOOD TR-2400 2-meter HT  
 with rubber duck antenna, manual, new battery  
 and Kenwood charger. Works GREAT! \$125  
 Call Mike - N3GPE (301) 468-9268, Rockville,  
 Maryland (09)

**FOR SALE:** TEN-TEC OMNI V Transceiver,  
 Model 562, with 500 Hz CW filter and matching  
 961 power supply . . . . . \$1350 Firm  
 Jerry Mullinix - AC4HK (703) 371-6872  
 Fredericksburg, VA (10)

**FOR SALE:** KENWOOD TH-27A two-meter FM  
 handy talkie, like new in box, full featured with  
 40 memories, autopatch, extended receive,  
 CTCSS, scanning and more. . . . . \$280  
 Pat - WD8LAQ (301) 249-3396. Call in evening  
 before 9 p.m. Bowie, MD. (10)

### NORM'S ROTOR SERVICE

Rebuilt Rotors, Parts & Service  
 Call Norm Jeweler - K3LYW  
 5263 Agro Drive  
 Frederick, MD 21701  
 (301) 874-5885



**G AND G ELECTRONICS**  
OF MARYLAND

8524 DAKOTA DRIVE, GAITHERSBURG, MD.  
20877

**SPECIAL SALE**

We have acquired the new  
equipment inventory of a  
ham radio store that is  
closing.

While supplies last, we are  
offering hundreds of  
accessories from ICOM, AEA,  
KENWOOD, YAESU, LARSEN,  
RADIO WKS, HUSTLER, MFJ,  
and others at prices  
well below normal retail.

Remember,  
quantities are limited, so  
**CALL NOW!**

OPEN MONDAY & TUESDAY 11 AM - 9 PM  
WEDNESDAY 11 AM - 5 PM & BY APPOINTMENT  
301-258-7373



## SHACK SALES

**WORLD RADIO**, Amateur Radio's monthly newspaper can be delivered to your doorstep for only \$14 per year (\$15.09 in California, \$24 overseas). Get the latest on how your fellow amateurs use their hobby to help others. Regular features are Contest and Hamfest announcements, Aerials, Amateur Satellites, Continuous Wave, Digital Bus, DX World, Search & Rescue Communications, FCC Highlights, Mobile, New Products, Propagation, QCWA, QRP, Station Appearance, Traffic, VE Exams, International News. Send your subscription to **WORLD RADIO**, 520 Calvados Avenue, Sacramento, CA 95815. (Swp)

**FOR SALE:** POWERSTAT variable transformer, Type S649, made by Superior Electric Company. Manual control. Input 230 volts at 9.5 Amps. Never used. \$100 or best offer. B. Thatcher (703) 354-8154, Alexandria, Virginia (09)

**FOR SALE:** Acculogic's "RAMpAT!" memory expansion board. Supports an 80286 or 80386 computer with 16-bit PC AT expansion slots. Can be used to backfill your system's memory to bring it up to the 640K limit, and to add extended and/or expanded (LIM 4.0 EMS) memory up to 16 MB. I bought it for \$100 in February 1992, but never really got to use it. In original box, with software and manual. Asking \$50. Call Fred Dahnke-WB6IQV at (703) 352-3785, Fairfax, VA (08)

**FOR SALE:** 4-1000A Linear Amplifier . \$300  
96 Foot Aluminum Crank-up Tower . \$300  
56 foot HDX Tower, 4-element Triband Beam, HAM-M Rotor . \$300  
Call David Schall-W4UPV, (703) 444-5959, 59 Whittingham Cr., Sterling, VA 22170 (09)

**WANTED:** Rohn 45G, 55G or any large commercial type guyed or self-supporting towers. I will take down and remove. If your station is in need of tower or antenna work, call me. Dave-N3EJT (301) 474-7405 College Park, Maryland (10)

**FOR SALE:** 60 foot EZ-WAY three section crank-up tower and MOSELY TA33 tri-band beam - includes rotator, cable and CDR control unit. Call Pete-W3RGX at (301) 530-1528, Bethesda, MD during July/August or write 2360-B 37th Street, Los Alamos, New Mexico 87544 (09)

**FOR SALE:** Rohn 66 foot tilt-over tower, with rotor plate. Excellent. 140 foot Rohn 25G look-a-like guyed tower, 13 straight, top section. Rohn 55G, 4 straight, 1 base section. Sinclair 2-meter duplexer, model 202G, 4 cavities . . . . . \$325  
10KW Gas generator 120/208, 60 cycles, 1800 rpm, Herculese four cylinder . . \$750  
Dave-N3EJT (301) 474-7405 College Park, Maryland (10)

**FOR SALE:** Windmill Tower 40 foot, 3 leg. Complete, already down . . . . . \$500  
Warren-W4OHM, (703) 662-8577, Winchester, VA (09)

**FOR SALE:** Lakeview super quad magnetic antenna mount, 1/2 ton holding power - trunk lid/roof mount . . . . . \$32  
new 74.95 little use - like new. Paul-W4LQF, (703) 979-1097, 2926 2nd Street South, Arlington, Virginia 22204 (09)



**PHD Associates -- Leesburg, Va. -- 703 777- 6949**

- The QUANTUM HAM BATTERY --HT Power for Life!
- The HT HOLSTER & the HT HOLSTER for the QUANTUM HAM BATTERY
- VECTRONICS Power Amplifiers and Antenna Tuners --Built with Quality!
- STANDARD Radio HT's and Mobile Transceivers -- Simply the best!
- Townsend "RIG SAVER" HT and Mobile Mounts --Keeps your rig in place!
- REALISTIC HTX-202 2M HT -- Feature packed! w/Radio Shack Warranty!

*Other Major Brands Available -- CALL for Information and Current Prices!*

**DISCOVER Card accepted!**



## SHACK SALES



### COMPUTER CORNER

**FOR SALE:** COMMODORE 128 Computer with 1571 disk drive, communications 300 modem, Star NL-10 dot matrix printer and AEA PK-64A five mode digital controller. All mint condition with manuals. Hooked up for demonstration. Computer table included. All for only \$300 Larry - KD3FB. Call evenings (301) 990-1415, Gaithersburg, MD (09)

**FOR SALE:** HyGain DX88 80 - 10 meter vertical. One year old \$100 Fred - KC4MOP, (301) 567-2012, Oxon Hill, Maryland (09)

**FOR SALE:** Motorola MODCOM Desktop control console. 60" - W, 14" - D, 7" - H. Handles multiple transmitter receiver units. Like new condition \$60 Ford Mustang 1966 six cylinder. Restorable but hood missing \$300 Firm Warren - W4OHM (703) 662-8577, Winchester, Virginia (09)

**FOR SALE:** GONSET Linear Amplifier, Model 3262, 1200 watts PEP, In good shape. Four 811 tubes. Will sell or swap \$200 Bob Slaughter - K4BXZ (703) 281-3305, Vienna, VA (10)

**FOR SALE:** SWAN 350 HF Rig & power supply. Needs work. Manual included \$60 19" cabinet, about 7' high FREE Fred - KC4MOP, (301) 567-2012, Oxon Hill, Maryland (09)

**WANTED:** Dual band 2-meter HT or Mobile, HF Rig, Amplifiers, Antennas, Power supplies. Will trade 16 foot sailboat, in excellent condition. Worth \$900. Call John - N3LYB (301) 422-9161, Hyattsville, MD (09)

#### SLIDE RULES WANTED

All Types for Museum Display

Bob Hill - NK3W

200 Agnes Lane, Linthicum, MD  
(410) 789-4772 Zip 21090-170205

### Call JWO SERVICES

Save on Ameco; ARRL; Callbooks; RSGB; Oscillators; Code Keys; etc. Discount Prices on all; bigger savings on 10 up. SPECIALIZE IN LARGE ORDERS FOR CLUBS AND CLASSES!

New! 1992 Catalog of Discounts, Free.

Special offer for Clubs and Classes

Full refund on unused items.

Call or write for information about our unique assistance for class needs!

1992 CALLBOOK SUPPLEMENT - One book for both the U.S. and International Callbooks (List \$10) \$9.00

1992 - 1993 ARRL Repeater Directory (List \$6.00) 1 - 9 \$5.50; 10 - up \$5.15

Only pay 30¢ handling per order and actual UPS.

### JWO SERVICES

#### Worldwide Shipments

12 Hickory Place Camp Hill, PA 17011

Phone (717) 731-4747

MasterCard / Visa

Daily to 10:00 p.m. and weekend afternoons

(09)

#### FOR SALE:

Kenwood TS-520S; Xcvr, w/mike . . . \$435  
Kenwood SMC-25 Speaker, Mike . . . \$30  
RF Signal Generator, Ferris 18-C,  
5-150 MHz . . . \$125  
Yaesu FT-401B Ham Band Receiver . . . \$80  
LaFayette FM Monitor, Model PF300  
Bands 30 - 50; 144-174; 450 - 470 MHz \$65  
Military Communications Receiver  
R-274/FRR - BC to 50 MHz . . . \$135  
RF Voltmeter - GR 1800A . . . \$50  
RF VTVM - GR 726A . . . \$30  
Hallicrafters Panadapter . . . \$45  
HP 650-A Test, 10 MHz . . . \$75  
Het. Frequency Meter - GR-620 A . . . \$15  
MFJ-1224 Computer Interface . . . \$80  
Millen 90-651 Grip-Dip Meter . . . \$40  
Palomar FC-40 Freq. Counter . . . \$25  
John Fluke Differential Voltmeter . . . \$25  
2000 Radio-TV tubes . . . @ \$1.50  
Three tube checkers -  
Sylvania, Hickok . . . @ \$90  
Speakers, Meters, Precision resistors,  
Computer books, small Radios, etc. Call "Les"  
WA3NGF (301) 864-3892, Riverdale, MD (09)

#### STOCK QSL CARDS

100 \$14.00 - Shipping FREE

Send SASE for Samples

K3UAL Print, 1520 Jutewood Avenue  
Hyattsville, MD 20785

Phone (301) 773-9383 or 773-5074



## SHACK SALES

### WANTED: HAM EQUIPMENT AND OTHER

**PROPERTY.** The Radio Club of Junior High School 22 NYC, Inc. is a nonprofit organization, granted 501(C)(3) status by the IRS and incorporated with the goal of using the theme of ham radio to further and enhance the education of young people nationwide. Send your radio to school, your property donation or financial support would be greatly appreciated and acknowledged with a receipt for your tax deductible contribution. Please look over whatever unwanted equipment you may have and call us. We will pick up or arrange shipping. You will receive the tax deduction, but most important, the privilege of knowing that your gift really made a difference in the education and upbringing of a child. You are invited to check into the WB2JKJ "22 Crew" CLASSROOM NET at 7 a.m. on 7.238 MHz or on 21.395 throughout the day. The first day of school in NYC is September 14. Join us on the Nets and meet the new "22 Crew." These will be just some of the children hoping for your support of EDUCOM. Write us at: THE RC OF JHS 22 NYC, INC, P.O. Box 1052, New York, NY 10002. 'Round the clock HOTLINES: Voice (516) 674-4072, also FAX (516) 674-9600(8)

**FOR SALE:** HyGain TH6DXX Triband beam, in excellent condition ..... \$200  
KENWOOD MC50 Microphone, excellent.. \$40  
Ed - N3US Home phone (301) 774-6506  
Work, (301) 713-0815 Olney, MD (09)

Become a part of one of the country's fastest growing vintage radio clubs. The Mid-Atlantic Antique Radio Club is an active group of radio collectors, restorers and historians. For a sample newsletter, write to Joe Koester at 249 Spring Gap South, Laurel, MD 20707.  
76Phone (301) 725-4229. (Swp)

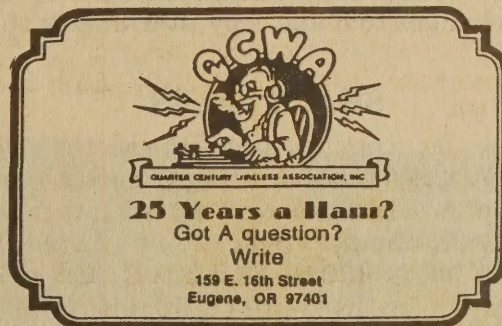
### WASHINGTON, D.C. AREA HAMS PARADISE.

3 or 4 bedroom, living room, 2 full baths, kitchen, built-in book cases, wood stove plus gas heat. Full basement with finished radio room, office, storage room, shop area and laundry area. Underground utilities, 10 acres - no TV!! Extra large, two car detached garage with RC openers.

The K4RZ fire lookout tower at 1800 feet. Walk up the steps - no climbing. Will support about anything you can dream up!

1 hour 15 minutes to D.C., 1 hour to Tysons, 45 minutes to Dulles, 5 minutes to Mt. Weather. Available at \$225,000. Call or write Frank Hoose - K4RZ, 1309 Greensprings Road, New Berne, N.C. 28560. (919) 637-7329 or phone agent Marge Burton at Chase Realty (703) 847-9111. (11)

Attention Amateur Radio Newsletter Editors. **AMATEUR RADIO NEWS SERVICE** is an organization of publishers and editors of Amateur Radio newsletters and members engaged in public relations. Its purpose is to assist editors in any way possible. For information, write to Lee Knirko - W9MOL, 833 Park Plaine, Parke Ridge, Illinois 60068



### Chapter X



*Society*

*of Wireless Pioneers.*

THE INTERNATIONAL ORGANIZATION  
OF PROFESSIONAL RADIO TELEGRAPHERS

For Information Call  
(703-536-9537

**SR  
M**

Serio, Romano & Mitchell

CHARTERED  
CERTIFIED PUBLIC ACCOUNTANTS

JOHN T. NUTTMANN, CPA

7910 WOODMONT AVENUE  
SUITE 1110  
BETHESDA MD 20814  
(301) 652-5040



# AUTO-CALL POLICY

## PRODUCTION POLICY

Copy for Auto-Call will be accepted in any form - handwritten, typed, compatible computer disk or modem. All hard copy is re-typed to preserve uniformity of style in the magazine. We use Word Perfect 5.1 word processing program, Hayes compatible modem (300 or 1200 baud) and can use either 3½" or 5¼" MS-DOS diskettes. We don't do Windows.

In determining space requirements, figure about 600 words per page (50 lines at 12 words per line), including the space taken up by headings, photographs, etc. Either black-and-white or color photos can be used as long as the contrast is good. Master copy, which is to be reproduced directly, should be in black ink on white paper and should be in proper page ratio. (Copy space is 7" wide by 9" high.) Copy can be reduced or enlarged as necessary.

Columns from Foundation member clubs are eagerly solicited and any items of general Amateur Radio interest are most welcome. The editor does reserve the right to edit or reject any portion of any copy submitted and to make minor changes to make copy fit available space.

## SHACK SALES

Deadline for copy is the 5th of the month preceding the publication date. Shack Sales will **NOT** be accepted over the telephone. Full address must be provided for our reference but need not be published. Each ad must include the call sign or the full name of the advertiser. If the full address is not included, we prefer to include the city along with a telephone number so that readers will know whether a long-distance charge is involved. The entire telephone number - including city and state - is counted as only one word. We do not count postal zip codes. Otherwise, each word, abbreviation, model number or group of letter/numbers is counted as one word. Remittance must accompany each ad.

See next column for additional information on advertising. For further information, phone the Auto-Call editor at (703) 536-8469, McLean, VA.

## ADVERTISING

### SHACK SALES

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Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone. Since no effort is made to investigate advertisers, no warranty can be implied.

## DISPLAY ADS

DISPLAY ADS are "boxed" and may contain artwork or photographs. They may be placed along with the Shack Sales or displayed in other sections of the magazine. Requests for specific locations will be honored if practical but cannot be guaranteed.

Display ads are charged according to size and duration of run as shown below. All advertising must be pre-paid for at least the current month.

		Rates per Issue			
Page	Col.inch	1 Year	6 Times	3 Times	1 Time
Full	18	\$75.00	\$90.00	\$100.00	\$105.00
1/2	9	55.00	65.00	71.00	75.00
1/3	6	40.00	46.00	51.00	54.00
1/4	4½	33.00	38.00	41.00	43.00
1/6	3	22.00	26.00	28.00	30.00
1/8	2¼	17.00	20.00	22.00	23.00
1/9	2	16.00	19.00	21.00	22.00
1/18	1	8.50	10.00	11.00	11.50

Based on camera-ready copy.  
Extra charges for halftoning photos  
and for in-house artwork or layout.

Copy must be received by the 5th  
of the month preceding publication date.  
(e.g., Copy for the October issue must be received by 5 September)

**All Advertising Must be Pre-paid**





# JOIN ARRL

## BENEFITS FOR YOU

QST, QSL Bureau Awards, Low Cost Insurance Operating Aids,  
Government Liaison and More—Much More!

### MEMBERSHIP APPLICATION

Name \_\_\_\_\_ Call \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ Prov./State \_\_\_\_\_ PC/ZIP \_\_\_\_\_

\$30 in U.S. \$42 elsewhere (U.S. funds) Licensed amateurs or age 65 or over, upon submitting proof of age, may request special dues rate of \$24 in the U.S. \$36 elsewhere in U.S. funds. Persons age 17 and younger may qualify for special rates, write for application.

For postal purposes, fifty percent of dues is allocated to QST, the balance for membership.

VISA, MC, AMEX, Discover # \_\_\_\_\_

Signature \_\_\_\_\_ Expires \_\_\_\_\_

The American Radio Relay League

225 Main St.

Newington, CT. 06111

USA

AUTOCALL

Atlantic Division Director  
Hugh Turnbull, W3ABC  
6903 Rhode Island Avenue  
College Park, MD 20740  
Phone: (301) 927-1797

Roanoke Division Director  
John Kanode, N4MM  
Rt 1, Box 73-A  
Boyce, VA 22620  
Phone: 703-837-1340



# September 1992

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 Antietam PG Wireless	2 BARC MARC	3 Anne Arundel Voice America	4 Mobileers Shennandoah	5 Stafford <u>EXAMS</u>
6	7 Dept of State	8 Frederick ARC Fauquier Woodbridge	9 Pentagon S.Patuxent --- FAR ---	10 AMRAD MADRAS Mt. Vernon No. Virginia	11 Alexandria So. Maryland Vienna	12 Stafford <u>EXAMS</u> Davidsonville Alexandria
13 MetroCom GAITHERSBURG HAMFEST	14 PVRC Carroll Cnty	15 Antietam Arlington	16 BARC Goddard MARC QCWA #137	17 Anne Arundel QCWA #20	18 Rock Creek Shennandoah <u>EXAMS</u> Camp Springs	19 Capital City Tri County Stafford Va Beach Fest <u>EXAMS</u> Laurel
20 T-MARC Annual Va Beach Fest <u>EXAMS</u> Virginia Beach Baltimore	21 Ole VA Hams Sterling Park PG ARES	22 Columbia	23 Laurel	24 MADRAS St. Marys	25 New Carrollton Vienna	26 Stafford <u>EXAMS</u>
27 Adventists	28	29	30 QCWA #20	31		